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Table 1
Emission trends: summary (1)
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	Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997
GREENHOUSE GAS EMISSIONS	kt CO 2 eq								
CO ₂ emissions without net CO ₂ from LULUCF	19,539.34	19,539.34	17,787.49	14,097.51	11,805.81	10,307.09	9,059.01	9,133.74	8,604.93
CO ₂ emissions with net CO ₂ from LULUCF	9,756.92	9,756.92	7,753.70	2,633.77	1,203.70	-1,138.72	-1,369.62	-1,950.79	-822.74
CH ₄ emissions without CH ₄ from LULUCF	3,995.93	3,995.93	3,939.44	3,371.15	2,555.02	2,360.44	2,337.68	2,272.27	2,227.07
CH ₄ emissions with CH ₄ from LULUCF	4,299.65	4,299.65	4,238.30	3,751.55	2,860.00	2,664.16	2,652.30	2,590.14	2,549.81
N ₂ O emissions without N ₂ O from LULUCF	2,649.10	2,649.10	2,487.69	1,991.80	1,512.56	1,353.18	1,219.75	1,225.95	1,229.66
N ₂ O emissions with N ₂ O from LULUCF	3,228.30	3,228.30	3,071.88	2,590.46	2,107.94	1,953.71	1,827.86	1,838.79	1,846.86
HFCs	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.67	0.84	2.03
PFCs	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
Unspecified mix of HFCs and PFCs	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
SF ₆	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.17	0.18	0.37
NF3	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
Total (without LULUCF)	26,184.37	26,184.37	24,214.61	19,460.45	15,873.39	14,020.70	12,617.28	12,632.97	12,064.06
Total (with LULUCF)	17,284.87	17,284.87	15,063.89	8,975.77	6,171.63	3,479.14	3,111.38	2,479.16	3,576.33
Total (without LULUCF, with indirect)	26,326.48	26,326.48	24,356.19	19,601.22	16,011.12	14,156.04	12,750.47	12,764.51	12,194.29
Total (with LULUCF, with indirect)	17,426.98	17,426.98	15,205.47	9,116.54	6,309.35	3,614.48	3,244.57	2,610.70	3,706.57
		1990	1991	1992	1993	1994	1995	1996	1997
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ^a kt CO ₂ eq	1990	1991	1992	1993	1994	1993	1990	1997
1. Energy	19,258.46	19,258.46	17,744.53	14,461.67	12,355.03	10,797.79	9,546.94	9,614.55	9,050.72
Industrial processes and product use	602.66	602.66	527.15	250.50	92.10	139.09	151.77	163.59	170.11
3. Agriculture	5,558.66	5,558.66	5,144.47	3,988.23	2,741.95	2,415.07	2,255.51	2,199.19	2,166.92
Land Use, Land-Use Change and Forestry ^b	-8,899.50	-8,899.50	-9,150.72	-10,484.68	-9,701.77	-10,541.56	-9,505.90	-10,153.82	-8,487.72
5. Waste	764.59	764.59	798.46	760.05	684.32	668.75	663.06	655.64	676.30
6. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total (including LULUCF)	17,284.87	17,284.87	15,063.89	8,975.77	6,171.63	3,479.14	3,111.38	2,479.16	3,576.33

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

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
GREENHOUSE GAS EMISSIONS										
CO ₂ emissions without net CO ₂ from LULUCF	8,227.86	7,643.66	7,012.42	7,428.51	7,454.85	7,639.71	7,647.62	7,733.03	8,234.41	8,557.09
CO ₂ emissions with net CO ₂ from LULUCF	-326.90	2,368.97	-1,092.84	-1,436.80	38.36	726.44	2,244.71	2,708.24	2,164.40	3,197.95
CH ₄ emissions without CH ₄ from LULUCF	2,129.99	1,985.65	1,995.39	2,086.22	2,069.05	1,988.73	1,955.41	1,998.30	1,972.69	2,032.34
CH ₄ emissions with CH ₄ from LULUCF	2,455.04	2,343.19	2,339.18	2,391.81	2,403.03	2,301.91	2,262.47	2,279.00	2,295.10	2,311.69
N ₂ O emissions without N ₂ O from LULUCF	1,187.54	1,116.67	1,133.07	1,230.08	1,192.28	1,246.07	1,226.59	1,280.18	1,289.92	1,334.67
N ₂ O emissions with N ₂ O from LULUCF	1,808.83	1,745.63	1,763.86	1,861.50	1,832.37	1,888.84	1,871.33	1,926.05	1,947.44	1,990.01
HFCs	3.09	3.49	5.47	8.13	10.60	13.38	18.03	24.51	42.22	63.20
PFCs	NO, NA									
Unspecified mix of HFCs and PFCs	NO, NA									
SF ₆	0.52	0.71	0.88	1.39	2.62	2.76	3.25	3.78	4.07	4.55
NF3	NO, NA									
Total (without LULUCF)	11,549.00	10,750.18	10,147.24	10,754.33	10,729.39	10,890.64	10,850.90	11,039.79	11,543.31	11,991.85
Total (with LULUCF)	3,940.57	6,461.99	3,016.55	2,826.03	4,286.98	4,933.33	6,399.79	6,941.58	6,453.24	7,567.40
Total (without LULUCF, with indirect)	11,677.95	10,877.97	10,273.87	10,879.69	10,853.03	11,013.12	10,972.17	11,160.46	11,664.32	12,105.69
Total (with LULUCF, with indirect)	4,069.53	6,589.78	3,143.18	2,951.39	4,410.62	5,055.81	6,521.06	7,062.25	6,574.24	7,681.24
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	8,637.88	8,001.91	7,383.68	7,817.48	7,820.23	7,973.21	8,005.95	8,111.14	8,532.88	8,852.18
Industrial processes and product use	172.92	205.67	158.61	181.79	195.76	211.11	229.35	229.46	277.19	301.50
3. Agriculture	2,052.36	1,860.43	1,859.64	1,979.87	1,965.20	2,017.84	1,940.71	2,015.26	2,023.13	2,105.92
4. Land Use, Land-Use Change and Forestry ^b	-7,608.42	-4,288.19	-7,130.69	-7,928.30	-6,442.41	-5,957.31	-4,451.11	-4,098.21	-5,090.07	-4,424.4
5. Waste	685.83	682.18	745.31	775.20	748.21	688.47	674.89	683.93	710.12	732.25
6. Other	NO									
Total (including LULUCF)	3,940.57	6,461.99	3,016.55	2,826.03	4,286.98	4,933.33	6,399.79	6,941.58	6,453.24	7,567.40

Table 1 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	8,127.83	7,392.13	8,478.49	7,734.62	7,414.61	7,276.02	-62.76
CO ₂ emissions with net CO ₂ from LULUCF	2,386.62	5,244.62	8,376.65	7,244.62	5,973.77	6,080.75	-37.68
CH ₄ emissions without CH ₄ from LULUCF	2,026.35	1,979.40	1,958.76	1,923.95	1,994.42	2,036.42	-49.04
CH ₄ emissions with CH ₄ from LULUCF	2,304.35	2,277.06	2,263.10	2,240.68	2,326.28	2,385.07	-44.53
N ₂ O emissions without N ₂ O from LULUCF	1,323.88	1,341.02	1,372.67	1,382.42	1,458.88	1,484.32	-43.97
N ₂ O emissions with N ₂ O from LULUCF	1,983.62	2,013.13	2,051.69	2,067.63	2,151.02	2,183.16	-32.37
HFCs	79.57	83.14	79.68	82.11	90.96	108.46	
PFCs	NO, NA						
Unspecified mix of HFCs and PFCs	NO, NA						
SF ₆	5.23	7.33	7.35	7.47	7.78	8.50	
NF3	NO, NA						
Total (without LULUCF)	11,562.85	10,803.02	11,896.94	11,130.56	10,966.65	10,913.73	-58.32
Total (with LULUCF)	6,759.39	9,625.27	12,778.46	11,642.50	10,549.81	10,765.95	-37.71
Total (without LULUCF, with indirect)	11,680.38	10,913.13	12,011.12	11,244.09	11,078.53	11,025.43	-58.12
Total (with LULUCF, with indirect)	6,876.91	9,735.39	12,892.64	11,756.03	10,661.69	10,877.65	-37.58
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2008	2009	2010	2011	2012	2013	Change from base to latest reported year
							(%)
1. Energy	8,405.16	7,699.60	8,452.79	7,589.42	7,290.72	7,185.09	
Industrial processes and product use	309.45	304.85	566.74	658.90	688.14	668.97	
3. Agriculture	2,076.27	2,092.61	2,140.57	2,154.55	2,250.52	2,310.12	
 Land Use, Land-Use Change and Forestry^b 	-4,803.46	-1,177.74	881.52	511.94	-416.84	-147.78	
5. Waste	771.97	705.96	736.84	727.69	737.27	749.54	-1.97
6. Other	NO	NO	NO	NO	NO	NO	

6,759.39

9,625.27 12,778.46 11,642.50 10,549.81

10,765.95

-37.71

Notes:

Total (including LULUCF)

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

Custom Footnotes

⁽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 CO₂ eq equals 1 Gg CO₂ eq.

^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.

 $^{^{\}rm b}$ Includes net CO2, CH4 and N2O from LULUCF.

Table 1 (a)
Emission trends (CO₂)
(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year a	1990	1991	1992	1993	1994	1995	1996	1997
1. Energy	18,556.81	18,556.81	17,021.04	13,808.80	11,709.08	10,164.95	8,905.57	8,969.08	8,435.31
A. Fuel combustion (sectoral approach)	18,556.80	18,556.80	17,021.02	13,808.79	11,709.07	10,164.94	8,905.56	8,969.07	8,435.31
Energy industries	6,201.22	6,201.22	5,692.55	4,861.46	3,939.64	3,712.96	3,391.71	3,511.75	3,275.72
Manufacturing industries and construction	3,889.62	3,889.62	2,935.87	2,492.18	2,159.26	1,960.11	1,909.08	1,865.84	1,818.00
3. Transport	2,930.37	2,930.37	2,744.56	2,449.39	2,259.59	2,143.87	2,040.66	2,006.00	1,997.55
4. Other sectors	5,535.58	5,535.58	5,648.04	4,005.76	3,350.58	2,347.99	1,564.12	1,585.29	1,343.94
5. Other	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	0.19	0.10
B. Fugitive emissions from fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1. Solid fuels	NO	NO	NO	NO	NO	NO	NO	NO	NC
Oil and natural gas and other emissions from energy production	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
C. CO2 transport and storage	NO	NO	NO	NO	NO	NO	NO	NO	NC
2. Industrial processes	602.59	602.59	527.10	250.46	92.06	139.04	150.89	162.54	167.64
A. Mineral industry	589.20	589.20	518.03	244.41	84.67	132.13	146.11	158.69	159.3
B. Chemical industry	NO	NO NO	NO NO	NO NO	NO NO	NO	NO	NO	NO
·	12.82	12.82	8.70	5.73	7.00		4.43	3.48	7.99
C. Metal industry						6.55			
D. Non-energy products from fuels and solvent use	0.58	0.58	0.37	0.32	0.39	0.37	0.35	0.36	0.33
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	NA
H. Other	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
3. Agriculture	379.13	379.13	238.59	37.52	4.00	2.46	1.96	1.52	1.3
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	371.42	371.42	231.99	33.65	1.67	0.76	1.29	0.67	0.19
H. Urea application	7.71	7.71	6.59	3.87	2.33	1.70	0.67	0.85	1.14
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	NO	NO	NC
J. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
4. Land Use, Land-Use Change and Forestry	-9,782.42	-9,782.42	-10,033.79	-11,463.74	-10,602.11	-11,445.81	-10,428.63	-11,084.53	-9,427.67
A. Forest land	-15,040.33	-15,040.33	-15,831.67	-16,306.33	-15,476.58	-15,953.71	-14,565.04	-14,606.06	-12,084.56
B. Cropland	3,249.06	3,249.06	3,280.45	3,302.13	3,326.69	3,348.09	3,368.44	3,053.24	3,053.50
C. Grassland	851.29	851.29	820.87	796.51	765.71	732.70	699.13	661.58	624.32
D. Wetlands	1,215.01	1,215.01	1,744.39	565.19	252.13	385.26	394.87	378.51	427.7
E. Settlements	108.91	108.91	115.11	122.10	131.99	139.04	147.95	118.59	123.50
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NC
G. Harvested wood products	-166.36	-166.36	-162.93	56.66	397.94	-97.18	-473.98	-690.40	-1,572.27
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NC
5. Waste	0.81	0.81	0.77	0.72	0.67	0.63	0.58	0.61	0.65
A. Solid waste disposal	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
B. Biological treatment of solid waste	110, 111	110,111	110,111	110,111	110, 111	110, 111	110, 111	110,111	110,117
C. Incineration and open burning of waste	0.81	0.81	0.77	0.72	0.67	0.63	0.58	0.61	0.65
D. Waste water treatment and discharge	0.01	0.01	0.77	0.72	0.07	0.05	0.56	0.01	0.0.
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NC
		NO	NO	NO		NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NC
Memo items:	1 721 00	1 721 00	747.50	c52.72	755.00	0.52.50	554.50	400.21	224.25
International bunkers	1,721.08	1,721.08	747.50	653.73	756.98	963.50	554.58	408.31	324.27
Aviation	221.15	221.15	299.01	84.10	84.10	77.87	77.87	99.67	99.67
Navigation	1,499.94	1,499.94	448.49	569.64	672.88	885.63	476.72	308.64	224.60
Multilateral operations	NA	NA	NA	NA	NA	NA	NA Tage 14	NA	NA
CO2 emissions from biomass	2,964.03	2,964.03	3,476.19	3,466.38	3,862.23	4,003.92	4,538.64	4,744.49	4,755.49
CO2 captured	NO	NO	NO	NO	NO	NO	NO	NO	NO
Long-term storage of C in waste disposal sites	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indirect N2O									
Indirect CO2 (3)	142.11	142.11	141.58	140.77	137.72	135.33	133.19	131.54	130.24
Total CO2 equivalent emissions without land use, land-use change and forestry	26,184.37	26,184.37	24,214.61	19,460.45	15,873.39	14,020.70	12,617.28	12,632.97	12,064.0
Total CO2 equivalent emissions with land use, land-use change and forestry	17,284.87	17,284.87	15,063.89	8,975.77	6,171.63	3,479.14	3,111.38	2,479.16	3,576.3
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and	19,681.45	19,681.45	17,929.07	14,238.28	11,943.53	10,442.42	9,192.20	9,265.28	8,735.1
forestry									-692.50

Table 1 (a)

LVA_BR2_v2.0

Emission trends (CO₂)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	8,054.53	7,438.06	6,852.83	7,251.76	7,251.94	7,417.36	7,436.71	7,528.48	7,999.21	8,315.68
A. Fuel combustion (sectoral approach)	8,054.52	7,438.05	6,852.82	7,251.76	7,251.93	7,417.36	7,436.70	7,528.48	7,999.20	8,315.68
Energy industries	3,338.13	2.919.47	2,474.11	2,421.19	2,317.01	2,246.23	2,056.91	2.047.02	2.073.74	1,944.72
Manufacturing industries and construction	1,589.62	1,441.60	1,177.84	1,078.32	1,125.46	1,132.98	1,149.31	1,153.03	1,223.89	1,216.41
3. Transport	1,972.62	1,940.55	2,149.98	2,542.26	2,619.80	2,763.23	2,902.53	3,028.08	3,340.06	3,780.74
4. Other sectors	1,153.96	1,136.28	1,050.76	1,209.82	1,182.77	1,268.75	1,318.31	1,292.72	1,354.01	1,370.96
5. Other	0.19	0.15	0.14	0.17	6.88	6.16	9.63	7.62	7.51	2.84
B. Fugitive emissions from fuels	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
1. Solid fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Oil and natural gas and other emissions from energy production	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
C. CO2 transport and storage	NO.01	NO.01	NO.01	NO.01	NO.01	NO.01	NO.01	NO	NO	NO.
2. Industrial processes	169.26	201.40	152.19	172.19	182.47	194.91	208.00	201.10	230.81	233.68
A. Mineral industry	160.38	193.30	143.39	163.77	174.47	182.32	194.36	183.31	212.83	218.10
B. Chemical industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	218.10 NO
·										
C. Metal industry	8.50	7.71	8.42	8.04	7.60	12.16	12.90	12.35	12.56	14.57
D. Non-energy products from fuels and solvent use	0.38	0.39	0.39	0.39	0.40	0.43	0.73	0.59	0.69	1.01
E. Electronic industry										
F. Product uses as ODS substitutes			37.1	251	37.	37.1	251			
G. Other product manufacture and use	NA NO NA	NA NO NA	NA NO NA	NA	NA 1.72	NA No NA				
H. Other	NO, NA	NO, NA	NO, NA	4.85	4.73	NO, NA				
3. Agriculture	3.39	3.45	6.21	2.19	20.14	27.07	2.47	3.00	2.86	6.53
A. Enteric fermentation										
B. Manure management										
C. Rice cultivation										
D. Agricultural soils										
E. Prescribed burning of savannas										
F. Field burning of agricultural residues										
G. Liming	2.24	2.34	4.86	0.33	15.68	25.64	1.05	1.57	1.43	5.10
H. Urea application	1.15	1.11	1.35	1.85	4.46	1.42	1.42	1.43	1.43	1.43
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
J. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4. Land Use, Land-Use Change and Forestry	-8,554.77	-5,274.69	-8,105.26	-8,865.31	-7,416.49	-6,913.26	-5,402.91	-5,024.79	-6,070.00	-5,359.13
A. Forest land	-10,685.23	-7,494.70	-9,940.37	-10,965.44	-9,823.41	-9,180.83	-7,764.35	-7,542.89	-8,751.66	-8,185.48
B. Cropland	3,052.98	3,055.17	3,052.08	3,019.98	3,014.92	3,013.36	3,010.85	3,006.31	3,001.18	2,993.16
C. Grassland	594.56	553.28	519.37	474.57	441.39	406.10	364.80	322.28	278.56	197.61
D. Wetlands	326.30	780.41	552.61	634.29	996.91	848.05	855.05	1,088.02	1,332.87	689.86
E. Settlements	130.93	137.90	144.20	296.92	310.61	324.01	336.87	349.82	362.01	310.56
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products	-1,974.30	-2,306.76	-2,433.15	-2,325.63	-2,356.91	-2,323.94	-2,206.12	-2,248.32	-2,292.96	-1,364.85
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5. Waste	0.68	0.75	1.19	2.36	0.30	0.37	0.45	0.44	1.53	1.20
A. Solid waste disposal	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA				
B. Biological treatment of solid waste	110,111	110,101	110,111	110,111	110,111	110,111	110,111	110,111	110,111	110,111
C. Incineration and open burning of waste	0.68	0.75	1.19	2.36	0.30	0.37	0.45	0.44	1.53	1.20
D. Waste water treatment and discharge	5.00	0.73	1.17	2.30	0.30	0.37	0.45	0.44	1.00	1.20
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Memo items:	127.42	121.77	104 14	607.07	722 00	714.00	700 10	1 002 40	925 01	910.74
International bunkers	137.42	121.77	106.14	697.07	733.88	714.90	788.19	1,003.69	825.81	810.74
Aviation	90.33	90.33	80.98	80.98	84.10	121.50	148.08	179.57	201.59	245.82
Navigation	47.10	31.44	25.15	616.09	649.79	593.40	640.11	824.12	624.22	564.93
Multilateral operations	NA NA	NA	NA	NA 1 Top 24	NA	NA	NA	NA .	NA	NA Tato ta
CO2 emissions from biomass	4,693.46	4,608.88	4,283.36	4,783.36	4,753.46	5,046.98	5,322.48	5,329.70	5,371.17	5,248.42
CO2 captured	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Long-term storage of C in waste disposal sites	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indirect N2O										
Indirect CO2 (3)	128.95	127.79	126.63	125.36	123.63	122.48	121.27	120.68	121.00	113.85
m . 1 cos	11,549.00	10,750.18	10,147.24	10,754.33	10,729.39	10,890.64	10,850.90	11,039.79	11,543.31	11,991.85
Total CO2 equivalent emissions without land use, land-use change and forestry						4 000 00	6,399.79	6,941.58	6,453.24	7,567.40
Total CO2 equivalent emissions without land use, land-use change and forestry Total CO2 equivalent emissions with land use, land-use change and forestry	3,940.57	6,461.99	3,016.55	2,826.03	4,286.98	4,933.33	0,399.79	0,941.58	0,455.24	.,
	3,940.57 8,356.82	6,461.99 7,771.45	3,016.55 7,139.05	2,826.03 7,553.87	4,286.98 7,578.48	7,762.19	7,768.89	7,853.70	8,355.41	8,670.93

Table 1(a)
Emission trends (CO₂)
(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2008	2009	2010	2011	2012	2013	Change from base to latest reported year
							%
1. Energy	7,896.71	7,168.97	7,992.45	7,152.43	6,808.91	6,705.77	-63.86
A. Fuel combustion (sectoral approach)	7,896.70	7,168.96	7,992.44	7,152.43	6,808.90	6,705.76	-63.86
1. Energy industries	1,917.50	1,866.76	2,249.56	2,071.47	1,855.35	1,918.68	-69.06
Manufacturing industries and construction	1,112.86	887.11	1,078.96	878.52	931.37	761.10	-80.43
3. Transport	3,570.62	3,130.02	3,197.78	2,839.45	2,736.39	2,772.11	-5.40
4. Other sectors	1,292.32	1,279.73	1,458.28	1,355.77	1,278.47	1,247.42	-77.47
5. Other	3.41	5.34	7.87	7.22	7.33	6.45	
B. Fugitive emissions from fuels	0.00	0.00	0.00	0.00	0.00	0.01	-30.46
1. Solid fuels	NO	NO	NO	NO	NO	NO	
Oil and natural gas and other emissions from energy production	0.00	0.00	0.00	0.00	0.00	0.01	-30.46
C. CO2 transport and storage	NO	NO	NO	NO	NO	NO	
2. Industrial processes	224.58	214.33	479.64	569.29	589.29	551.98	-8.40
A. Mineral industry	214.80	203.91	467.36	567.56	585.36	549.95	-6.66
B. Chemical industry	NO	NO	NO	NO	NO	NO	
C. Metal industry	8.73	9.56	11.28	0.72	2.87	0.96	
D. Non-energy products from fuels and solvent use	1.06	0.86	1.00	1.02	1.06	1.08	87.19
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use	NA	NA	NA	NA	NA	NA	
H. Other	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
3. Agriculture	6.03	8.50	6.05	12.55	16.09	17.85	-95.29
A. Enteric fermentation							
B. Manure management							
C. Rice cultivation							
D. Agricultural soils							
E. Prescribed burning of savannas							
F. Field burning of agricultural residues							
G. Liming	2.86	4.15	2.05	8.29	10.30	13.78	-96.29
H. Urea application	3.17	4.35	4.00	4.25	5.79	4.08	-47.13
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	
J. Other	NO	NO	NO	NO	NO	NO	
4. Land Use, Land-Use Change and Forestry	-5,741.21	-2,147.52	-101.84	-490.00	-1,440.84	-1,195.27	-87.78
A. Forest land	-9,231.69	-5,598.06	-3,004.15	-3,222.23	-4,242.75	-3,952.38	-73.72
B. Cropland	2,988.14	2,741.84	2,722.50	2,715.33	2,708.31	2,700.97	-16.87
C. Grassland	151.88	142.24	132.50	151.93	170.91	188.32	-77.88
D. Wetlands	1,073.95	948.80	989.29	991.07	958.77	1,003.23	-17.43
E. Settlements	323.90	844.01	885.87	916.33	969.06	1,006.11	823.83
F. Other land	NO	NO	NO	NO	NO	NO	
G. Harvested wood products	-1,047.38	-1,226.35	-1,827.85	-2,042.44	-2,005.14	-2,141.52	1,187.31
H. Other	NO	NO	NO	NO	NO	NO	
5. Waste	0.51	0.34	0.34	0.34	0.32	0.43	-47.28
A. Solid waste disposal	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
B. Biological treatment of solid waste							
C. Incineration and open burning of waste	0.51	0.34	0.34	0.34	0.32	0.43	-47.28
D. Waste water treatment and discharge							
E. Other	NO	NO	NO	NO	NO	NO	
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	
Memo items:							
International bunkers	950.79	1,181.67	1,156.28	1,038.54	1,125.20	1,118.11	-35.03
Aviation	296.15	311.90	357.76	359.15	363.38	375.15	69.64
Navigation	654.64	869.77	798.52	679.39	761.83	742.95	
Multilateral operations	NA	NA	NA	NA	701.83 NA	742.93 NA	
CO2 emissions from biomass	4,971.89	5,682.66	5,054.93	5,286.10	5,923.17	5,992.02	
CO2 captured	4,571.85 NO	NO	NO	3,280.10 NO	NO	3,992.02 NO	102.10
Long-term storage of C in waste disposal sites	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	
Indirect N2O	INA	IVA	INA	IVA	INA	INA	
Indirect N2O Indirect CO2 (3)	117.52	110.11	114.18	113.53	111.89	111.70	-21.40
Total CO2 equivalent emissions without land use, land-use change and forestry		10.11	11,896.94	11,130.56	10,966.65	10,913.73	-58.32
Total CO2 equivalent emissions without land use, land-use change and forestry Total CO2 equivalent emissions with land use, land-use change and forestry	11,562.85 6,759.39		11,896.94	11,130.56	10,966.65	10,765.95	
		9,625.27					
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	8,245.35	7,502.24	8,592.67	7,848.15	7,526.50	7,387.73	-62.46
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	2,504.14	5,354.73	8,490.83	7,358.15	6,085.66	6,192.45	-37.44

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 (+).

Table 1(b)
Emission trends (CH₄)
(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year a	1990	1991	1992	1993	1994	1995	1996	1997
1. Energy	22.11	22.11	23.09	20.94	21.30	20.99	21.26	21.32	20.14
A. Fuel combustion (sectoral approach)	12.21	12.21	13.55	12.24	12.99	12.86	13.35	13.69	13.02
1. Energy industries	0.19	0.19	0.17	0.15	0.14	0.15	0.12	0.15	0.19
2. Manufacturing industries and construction	0.22	0.22	0.12	0.11	0.13	0.13	0.14	0.15	0.15
3. Transport	0.79	0.79	0.73	0.69	0.67	0.64	0.58	0.55	0.52
4. Other sectors	11.00	11.00	12.53	11.29	12.05	11.94	12.51	12.84	12.17
5. Other	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	0.00	0.00
B. Fugitive emissions from fuels	9.90	9.90	9.54	8.70	8.32	8.13	7.92	7.63	7.12
1. Solid fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and natural gas and other emissions from energy production	9.90	9.90	9.54	8.70	8.32	8.13	7.92	7.63	7.12
C. CO2 transport and storage									
2. Industrial processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral industry									
B. Chemical industry	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal industry	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
D. Non-energy products from fuels and solvent use	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA		NO, 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	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
3. Agriculture	107.62		103.03	83.98	54.04	47.18			42.43
A. Enteric fermentation	91.28	91.28	87.80	73.22	47.23	40.78		37.94	36.79
B. Manure management	16.34	16.34	15.22	10.76	6.81	6.40		5.94	5.63
C. Rice cultivation	NO NO	NO	NO NO	NO.76	NO.01	NO.40			NO
D. Agricultural soils	NE		NE NE	NE NE	NE NE				NE
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO		NO
F. Field burning of agricultural residues	NO	NO	NO	NO	NO	NO	NO		NO
G. Liming	NO	NO	NO	NO	NO	NO	NO	NO	NO
H. Urea application									
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	NO	NO	NO
J. Other	NO 12.15	NO 12.15	NO	NO 15.22	NO 12.20	NO	NO		NO
4. Land use, land-use change and forestry	12.15	12.15	11.95	15.22	12.20	12.15			12.91
A. Forest land	3.35	3.35	3.16	6.44	3.44	3.41	3.87	4.02	4.25
B. Cropland	5.00	5.00	5.01	5.00	4.99				4.93
C. Grassland	2.65	2.65	2.64	2.64	2.63	2.62		2.61	2.59
D. Wetlands	1.14	1.14	1.14	1.14	1.14	1.14			1.14
E. Settlements	NO	NO	NO	NO	NO	NO	NO		NO
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products									
H. Other	NO		NO	NO	NO		NO		NO
5. Waste	30.11	30.11	31.46	29.93	26.86		26.01	25.69	26.52
A. Solid waste disposal	15.71	15.71	16.29	16.76	17.13	17.40		17.78	18.05
B. Biological treatment of solid waste	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE			NO, NE
C. Incineration and open burning of waste	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
D. Waste water treatment and discharge	14.39	14.39	15.17	13.17	9.73	8.85	8.44	7.92	8.47
E. Other	NO		NO	NO	NO	NO			NO
6. Other (as specified in the summary table in CRF)	NO		NO	NO	NO				NO
Total CH4 emissions without CH4 from LULUCF	159.84	159.84	157.58	134.85	102.20			90.89	89.08
Total CH4 emissions with CH4 from LULUCF	171.99		169.53	150.06	114.40		106.09		101.99
Memo items:	171.99	1/1.39	107.33	130.00	114.40	100.57	100.09	105.01	101.99
International bunkers	0.10	0.10	0.03	0.04	0.04	0.06	0.03	0.02	0.01
Aviation	0.00		0.00	0.04	0.04				0.00
Navigation Multilatoral analytica	0.09	0.09	0.03	0.04	0.04				0.01
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass									
CO2 captured									
Long-term storage of C in waste disposal sites									
Indirect N2O									
Indirect CO2 (3)									

Table 1(b)
Emission trends (CH₄)
(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	19.02	18.46	17.26	18.28	18.29	17.47	17.80	18.37	16.51	16.54
A. Fuel combustion (sectoral approach)	12.19				12.19	12.71	13.09	13.04	12.69	12.62
Energy industries	0.21	0.19			0.18	0.20	0.20	0.17	0.19	0.19
Manufacturing industries and construction	0.15	0.13				0.15	0.19	0.22	0.17	0.20
3. Transport	0.49				0.51	0.48	0.45	0.39	0.38	0.35
4. Other sectors	11.33	11.15			11.34	11.88	12.25	12.25	11.89	11.88
5. Other	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
B. Fugitive emissions from fuels	6.83	6.51	6.03		6.10	4.76	4.71	5.33	3.82	3.92
Solid fuels	NO	NO			NO	NO NO	NO NO	NO	NO NO	NO
Oil and natural gas and other emissions from energy production	6.83	6.51		5.84	6.10		4.71	5.33	3.82	3.92
C. CO2 transport and storage	0.83	0.51	0.03	3.04	0.10	4.70	4./1	3.33	3.02	3.92
2. Industrial processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral industry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Chemical industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal industry	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
	NO, NA				NO, NA					
D. Non-energy products from fuels and solvent use E. Electronic industry	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
F. Product uses as ODS substitutes										
	374	274	NT.	NT.A	27.4	N/A	N/A	27.4	274	27.4
G. Other product manufacture and use	NA NO NA				NA NO NA		NA NA	NA NA	NA NA	NO NA
H. Other	NO, NA	NO, NA	NO, NA		NO, NA					
3. Agriculture	39.38				34.99	34.85	33.64	34.55	34.74	36.14
A. Enteric fermentation	34.04	29.30			29.98	29.88	28.72	29.56	29.55	30.84
B. Manure management	5.34				5.01	4.97	4.92		5.19	5.30
C. Rice cultivation	NO	NO			NO	NO	NO	NO	NO	NO
D. Agricultural soils	NE						NE		NE	NE
E. Prescribed burning of savannas	NO	NO			NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Liming										
H. Urea application										
I. Other carbon-containing fertilizers										
J. Other	NO	NO			NO	NO	NO	NO	NO	NO
4. Land use, land-use change and forestry	13.00	14.30	13.75	12.22	13.36	12.53	12.28	11.23	12.90	11.17
A. Forest land	4.37	5.69	5.17	3.67	4.81	4.00	3.81	2.81	4.43	2.82
B. Cropland	4.91	4.89	4.87	4.85	4.83	4.81	4.79	4.77	4.74	4.72
C. Grassland	2.59	2.58	2.57	2.57	2.58	2.58	2.54	2.51	2.58	2.49
D. Wetlands	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products										
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5. Waste	26.80	26.67	29.07	30.01	29.48	27.23	26.77	27.01	27.66	28.61
A. Solid waste disposal	18.37	18.74	19.15	19.62	19.51	17.88	17.09	17.63	18.38	19.36
B. Biological treatment of solid waste	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	0.01	0.03	0.03	0.05	0.04
C. Incineration and open burning of waste	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, NA, NE
D. Waste water treatment and discharge	8.43	7.94	9.92	10.40	9.96	9.34	9.65	9.36	9.23	9.21
E. Other	NO	NO			NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total CH4 emissions without CH4 from LULUCF	85.20		79.82		82.76		78.22	79.93	78.91	81.29
Total CH4 emissions with CH4 from LULUCF	98.20				96.12		90.50	91.16		
Memo items:	70.20	25.75	, 5.57	70.07	, ,,,,,	, 2.00	, 5,50	,0	, 1.00	, 2, 17
International bunkers	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.05	0.04	0.04
Aviation	0.00					0.00	0.00	0.00	0.00	0.00
Navigation	0.00					0.04	0.04	0.05	0.04	0.03
Multilateral operations	NA						NA	NA	NA	NA
CO2 emissions from biomass	INA	INA	INA	INA	INA	INA	INA	INA	11/4	11/21
CO2 captured										
Long-term storage of C in waste disposal sites										
Indirect N2O										
Indirect CO2 (3)										

Table 1(b)
Emission trends (CH₄)
(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	15.69	16.60	14.07	12.97	14.44	14.36	-35.03
A. Fuel combustion (sectoral approach)	11.66	12.80	10.40	10.45	11.25	10.32	-15.41
1. Energy industries	0.18	0.18	0.20	0.19	0.22	0.32	70.61
Manufacturing industries and construction	0.22	0.29	0.35	0.41	0.47	0.48	120.61
3. Transport	0.28	0.24	0.23	0.21	0.20	0.19	-75.98
4. Other sectors	10.99	12.09	9.61	9.64	10.36	9.33	-15.23
5. Other	0.00	0.00	0.00	0.00	0.00	0.00	
B. Fugitive emissions from fuels	4.03	3.81	3.66	2.52	3.18	4.04	-59.21
1. Solid fuels	NO	NO	NO	NO	NO	NO	
Oil and natural gas and other emissions from energy production	4.03	3.81	3.66	2.52	3.18	4.04	-59.21
C. CO2 transport and storage							
2. Industrial processes	0.00	0.00	0.00	0.00	0.00	0.00	-64.87
A. Mineral industry	170		270	110	270	110	
B. Chemical industry	NO	NO	NO	NO	NO	NO	
C. Metal industry	0.00	0.00	0.00	0.00	0.00	0.00	-64.87
D. Non-energy products from fuels and solvent use	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use	NA	NA	NA	NA		NA	
H. Other	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
3. Agriculture	35.00	34.77	35.26	35.42	36.38	37.62	-65.04
A. Enteric fermentation	29.87	29.65	29.96	30.15	31.03	32.14	-64.79
B. Manure management	5.12	5.11	5.30	5.27	5.35	5.48	-66.47
C. Rice cultivation	NO	NO	NO	NO	NO	NO	
D. Agricultural soils	NE	NE	NE	NE	NE	NE	
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	
F. Field burning of agricultural residues	NO	NO	NO	NO	NO	NO	
G. Liming							
H. Urea application							
I. Other carbon-containing fertilizers							
J. Other	NO	NO	NO	NO	NO	NO	
4. Land use, land-use change and forestry	11.12	11.91	12.17	12.67	13.27	13.95	14.79
A. Forest land	2.82	3.63	3.92	4.41	5.01	5.67	69.13
B. Cropland	4.69	4.67	4.66	4.68	4.69	4.71	-5.94
C. Grassland	2.47	2.47	2.45	2.44	2.43	2.43	-8.45
D. Wetlands	1.14	1.14	1.14	1.14	1.14	1.14	0.00
E. Settlements	NO	NO	NO	NO	NO	NO	
F. Other land	NO	NO	NO	NO	NO	NO	
G. Harvested wood products							
H. Other	NO	NO	NO	NO	NO	NO	
5. Waste	30.36	27.81	29.03	28.56	28.96	29.47	-2.11
A. Solid waste disposal	20.16	20.35	20.73	20.91	21.36	21.32	35.66
B. Biological treatment of solid waste	0.04	0.06	0.07	0.09	0.07	0.06	
C. Incineration and open burning of waste	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	
D. Wasta water treatment and discharge	10.16	7.40	8.22	7.56	7.53	8.10	-43.74
D. Waste water treatment and discharge E. Other							
	NO	NO	NO	NO		NO	
6. Other (as specified in the summary table in CRF) Total CH4 emissions without CH4 from LULUCF	NO 91.05	NO	NO	NO 76.06		NO 91.46	
Total CH4 emissions with CH4 from LULUCF	81.05	79.18	78.35	76.96		81.46	
	92.17	91.08	90.52	89.63	93.05	95.40	-44.53
Memo items:	0.01	0.0-	0.05	0.05	0.05	0.0-	40.00
International bunkers	0.04	0.06	0.05	0.05		0.06	
Aviation	0.00	0.00	0.00	0.00		0.01	
Navigation	0.04	0.05	0.05	0.04		0.05	
Multilateral operations	NA	NA	NA	NA	NA	NA	
CO2 emissions from biomass							
CO2 captured							
Long-term storage of C in waste disposal sites							
Indirect N2O							
Indirect CO2 (3)							

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

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

 $Table \ 1(c)$ $Emission \ trends \ (N_2O)$ $(Sheet \ 1 \ of \ 3)$

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year a	1990	1991	1992	1993	1994	1995	1996	1997
1. Energy	0.50	0.50	0.49	0.43	0.38	0.36	0.37	0.38	0.38
A. Fuel combustion (sectoral approach)	0.50	0.50	0.49	0.43	0.38	0.36	0.37	0.38	0.38
Energy industries	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Manufacturing industries and construction	0.03	0.03	0.02		0.02	0.02	0.02	0.02	0.02
3. Transport	0.27	0.27	0.26	0.22	0.16	0.15	0.15	0.15	0.16
4. Other sectors	0.16	0.16	0.18	0.17	0.17	0.16	0.17	0.18	0.17
5. Other	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	0.00	0.00
B. Fugitive emissions from fuels	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
1. Solid fuels	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
Oil and natural gas and other emissions from energy production	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. CO2 transport and storage									
2. Industrial processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral industry									
B. Chemical industry	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal industry	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Non-energy products from fuels and solvent use	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
E. Electronic industry									
F. Product uses as ODS substitutes									
G. Other product manufacture and use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H. Other	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
3. Agriculture	8.35	8.35	7.82	6.21	4.65	4.14	3.68	3.69	3.71
A. Enteric fermentation									
B. Manure management	1.02	1.02	0.99	0.80	0.52	0.45	0.45	0.42	0.39
C. Rice cultivation									
D. Agricultural soils	7.33	7.33	6.83	5.41	4.13	3.68	3.24	3.27	3.32
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Liming									
H. Urea application									
I. Other carbon containing fertlizers									
J. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
4. Land use, land-use change and forestry	1.94	1.94	1.96	2.01	2.00	2.02	2.04	2.06	2.07
A. Forest land	1.92	1.92	1.91	1.95	1.92	1.91	1.92	1.92	1.93
B. Cropland	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07
C. Grassland	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03
D. Wetlands	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
E. Settlements	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products									
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
5. Waste	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
A. Solid waste disposal									
B. Biological treatment of solid waste	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE
C. Incineration and open burning of waste	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
D. Waste water treatment and discharge	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total direct N2O emissions without N2O from LULUCF	8.89	8.89	8.35	6.68	5.08	4.54	4.09	4.11	4.13
Total direct N2O emissions with N2O from LULUCF	10.83	10.83	10.31	8.69	7.07	6.56	6.13	6.17	6.20
Memo items:									
International bunkers	0.19	0.19	0.04	0.04	0.06	0.11	0.05	0.04	0.03
Aviation	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Navigation	0.18	0.18	0.03	0.03	0.06	0.11	0.04	0.03	0.03
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass									
CO2 captured									
Long-term storage of C in waste disposal sites									
Indirect N2O	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
Indirect CO2 (3)									

Table 1(c) 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	0.36	0.34	0.33	0.36	0.37	0.40	0.42	0.41	0.41	0.41
A. Fuel combustion (sectoral approach)	0.36	0.34	0.33	0.36	0.37	0.40	0.42	0.41	0.41	0.41
Energy industries	0.04	0.03	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02
Manufacturing industries and construction	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
3. Transport	0.15	0.14	0.15	0.16	0.17	0.19	0.20	0.19	0.19	0.20
4. Other sectors	0.16	0.15	0.14	0.16	0.16	0.16	0.17	0.17	0.16	0.16
5. Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Fugitive emissions from fuels	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
Solid fuels	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
Oil and natural gas and other emissions from energy production	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. CO2 transport and storage										
2. Industrial processes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral industry										
B. Chemical industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Non-energy products from fuels and solvent use	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
E. Electronic industry										
F. Product uses as ODS substitutes										
G. Other product manufacture and use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
H. Other	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
3. Agriculture	3.57	3.35	3.41	3.69	3.59	3.76	3.68	3.85	3.87	4.01
A. Enteric fermentation										
B. Manure management	0.36	0.32	0.34	0.37	0.36	0.36	0.35	0.36	0.37	0.38
C. Rice cultivation										
D. Agricultural soils	3.21	3.04	3.07	3.32	3.23	3.40	3.33	3.50	3.50	3.64
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Liming										
H. Urea application										
I. Other carbon containing fertlizers										
J. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4. Land use, land-use change and forestry	2.08	2.11	2.12	2.12	2.15	2.16	2.16	2.17	2.21	2.20
A. Forest land	1.93	1.94	1.93	1.92	1.93	1.93	1.92	1.91	1.93	1.91
B. Cropland	0.08	0.08	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.11
C. Grassland	0.04	0.04	0.05	0.06	0.06	0.07	0.07	0.08	0.09	0.09
D. Wetlands	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
E. Settlements	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products										
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5. Waste	0.05	0.05	0.06	0.08	0.04	0.02	0.02	0.03	0.06	0.05
A. Solid waste disposal										
B. Biological treatment of solid waste	NO, NE	NO, NE	NO, NE	NO, NE	NO, NE	0.00	0.00	0.00	0.00	0.00
C. Incineration and open burning of waste	0.01	0.02	0.02	0.05	0.01	0.01	0.01	0.01	0.03	0.03
D. Waste water treatment and discharge	0.04	0.03	0.04	0.03	0.03	0.02	0.01	0.02	0.02	0.02
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total direct N2O emissions without N2O from LULUCF	3.99	3.75	3.80	4.13	4.00	4.18	4.12	4.30	4.33	4.48
Total direct N2O emissions with N2O from LULUCF	6.07	5.86	5.92	6.25	6.15	6.34	6.28	6.46	6.54	6.68
Memo items:	0.07	5.00	3.72	0.25	0.13	0.5 1	0.20	0.10	0.5 1	0.00
International bunkers	0.02	0.02	0.01	0.14	0.12	0.11	0.11	0.13	0.10	0.09
Aviation	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.13	0.10	0.03
Navigation	0.02	0.00	0.00	0.14	0.12	0.10	0.00	0.01	0.01	0.01
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass	INA	INA	IVA	INA	IVA	INA	INA	INA	11/1	INA
CO2 captured										
Long-term storage of C in waste disposal sites										
Long-term storage of C in waste disposal sites Indirect N2O	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
munect 1920	IE, NA, NO	ie, iva, no	ie, ina, no	ie, ina, inu	IL, INA, NO	il, INA, INO	il, IVA, NO	il, IVA, NO	ili, INA, INO	ie, ina, ino

Table 1(c)
Emission trends (N₂O)
(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2008	2009	2010	2011	2012	2013	Change from base to latest reported year
			0.01	0.00	0.44	0.40	%
1. Energy	0.39	0.39	0.36	0.38	0.41	0.40	-19.28
A. Fuel combustion (sectoral approach)	0.39	0.39	0.36	0.38	0.41	0.40	-19.28
1. Energy industries	0.02	0.02	0.03	0.02	0.03	0.04	13.00
Manufacturing industries and construction	0.03	0.04	0.05	0.06	0.07	0.07	124.88
3. Transport	0.19	0.16	0.16	0.16	0.17	0.17	-38.21
4. Other sectors	0.15	0.16	0.13	0.13	0.14	0.13	-21.58
5. Other	0.00	0.00	0.00	0.00	0.00	0.00	
B. Fugitive emissions from fuels	NO, NA						
1. Solid fuels	NO, NA						
Oil and natural gas and other emissions from energy production	NO	NO	NO	NO	NO	NO	
C. CO2 transport and storage							
2. Industrial processes	0.00	0.00	0.00	0.00	0.00	0.00	12.50
A. Mineral industry							
B. Chemical industry	NO	NO	NO	NO	NO	NO	
C. Metal industry	NO	NO	NO	NO	NO	NO	
D. Non-energy products from fuels and solvent use	NO, NA						
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use	0.00	0.00	0.00	0.00	0.00	0.00	12.50
H. Other	NO, NA						
3. Agriculture	4.01	4.08	4.21	4.22	4.45	4.54	-45.69
A. Enteric fermentation							
B. Manure management	0.36	0.36	0.35	0.35	0.36	0.37	-63.57
C. Rice cultivation							
D. Agricultural soils	3.65	3.72	3.85	3.87	4.09	4.16	-43.19
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	
F. Field burning of agricultural residues	NO	NO	NO	NO	NO	NO	
G. Liming							
H. Urea application							
I. Other carbon containing fertlizers							
J. Other	NO	NO	NO	NO	NO	NO	
4. Land use, land-use change and forestry	2.21	2.26	2.28	2.30	2.32	2.35	20.66
A. Forest land	1.91	1.93	1.94	1.95	1.97	1.98	3.54
B. Cropland	0.12	0.12	0.11	0.10	0.09	0.08	616.32
C. Grassland	0.10	0.10	0.10	0.09	0.09	0.09	47,128.79
D. Wetlands	0.01	0.01	0.01	0.01	0.01	0.01	0.00
E. Settlements	0.07	0.09	0.11	0.13	0.15	0.18	5,672.45
F. Other land	NO	NO	NO	NO	NO	NO	
G. Harvested wood products							
H. Other	NO	NO	NO	NO	NO	NO	
5. Waste	0.04	0.04	0.04	0.04	0.04	0.04	11.09
A. Solid waste disposal							
B. Biological treatment of solid waste	0.00	0.00	0.01	0.01	0.01	0.00	
C. Incineration and open burning of waste	0.01	0.01	0.01	0.01	0.01	0.01	
D. Waste water treatment and discharge	0.03	0.02	0.02	0.03	0.03	0.02	
E. Other	NO	NO	NO	NO	NO	NO	
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	
Total direct N2O emissions without N2O from LULUCF	4.44	4.50	4.61	4.64	4.90	4.98	
Total direct N2O emissions with N2O from LULUCF	6.66	6.76	6.88	6.94	7.22	7.33	
Memo items:	0.00	0.70	0.30	0.74	7.22	,.55	32.37
International bunkers	0.08	0.11	0.12	0.12	0.14	0.12	-34.13
Aviation	0.08	0.11	0.12	0.12	0.14	0.12	
Navigation	0.01	0.01	0.01	0.01	0.01	0.01	
Navigation Multilateral operations			0.10 NA				
Multilateral operations CO2 emissions from biomass	NA	NA	NA	NA	NA	NA	
CO2 captured							
Long-term storage of C in waste disposal sites	IE MA MO	IE NA NO					
Indirect N2O	ie, na, no						
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.

Table 1(d)
Emission trends (HFCs, PFCs and SF₆)
(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)	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.67	0.84	2.03
Emissions of HFCs - (kt CO2 equivalent)	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.67	0.84	2.03
HFC-23	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.00	0.00	0.00
HFC-32	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NE, NA, NO	NE, NA, NO	NE, NA, NC
HFC-41	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-43-10mee	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-125	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
HFC-134	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-134a	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.00	0.00	0.00
HFC-143	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-143a	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
HFC-152	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-152a	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA, NE	NO, NA, NE	NO, NA, NE
HFC-161	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-227ea	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
HFC-236cb	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-236ea	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
HFC-236fa	NO, NA					NO, NA			
HFC-245ca	NO, NA					NO, NA			
HFC-245fa	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA, NE	NO, NA, NE	NO, NA, NE
HFC-365mfc	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA, NE	NO, NA, NE	NO, NA, NE
Unspecified mix of HFCs(4) - (kt CO ₂ equivalent)	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
Emissions of PFCs - (kt CO2 equivalent)	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
CF ₄	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
C_2F_6	NO, NA					NO, NA			
C_3F_8	NO, NA					NO, NA			
C_4F_{10}	NO, NA					NO, NA			
c-C ₄ F ₈	NO, NA					NO, NA			
C ₅ F ₁₂	NO, NA					NO, NA			
C ₆ F ₁₄	NO, NA	NO, NA				NO, NA			
C10F18	NO, NA	NO, NA			NO, NA	NO, NA			NO, NA
c-C3F6	NO, NA					NO, NA			
Unspecified mix of PFCs(4) - (kt CO ₂ equivalent)	NO, NA					NO, NA			NO, NA
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NO, NA					NO, NA			
Emissions of SF6 - (kt CO2 equivalent)	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.17	0.18	0.37
SF ₆	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.00	0.00	0.00
Emissions of NF3 - (kt CO2 equivalent)	NO, NA					NO, NA			
NF3	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA

Table 1(d)
Emission trends (HFCs, PFCs and SF₆)
(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)	3.09	3.49	5.47	8.13	10.60	13.38	18.03	24.51	42.22	63.20
Emissions of HFCs - (kt CO2 equivalent)	3.09	3.49	5.47	8.13	10.60	13.38	18.03	24.51	42.22	63.20
HFC-23	0.00	0.00	0.00	0.00	0.00	0.00	NO, NA, NE, IE	NO, NA, IE	NO, NA, IE	NO, NA, IE
HFC-32	NE, NA, NO	0.00	0.00	0.00	0.00					
HFC-41	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-43-10mee	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-125	NO, NA, NE	0.00	0.00	0.00	0.00					
HFC-134	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-134a	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.03	0.03
HFC-143	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-143a	NO, NA, NE	0.00	0.00	0.00	0.00					
HFC-152	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-152a	NO, NA, NE	NO, NA, NE	0.00	0.00						
HFC-161	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-227ea	NO, NA, NE	NO, NA, NE	NO, NA, NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-236cb	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-236ea	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-236fa	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-245ca	NO, NA	NO, NA	NO, NA	NO, NA						
HFC-245fa	NO, NA, NE	NE, NA, NO	0.00	NO, NA	NO, NA	NO, NA				
HFC-365mfc	NO, NA, NE	NO, NA, NE	NO, NA, NE	NO, NA, NE						
Unspecified mix of HFCs(4) - (kt CO ₂ equivalent)	NO, NA	NO, NA	NO, NA	NO, NA						
Emissions of PFCs - (kt CO2 equivalent)	NO, NA	NO, NA	NO, NA	NO, NA						
CF ₄	NO, NA	NO, NA	NO, NA	NO, NA						
C_2F_6	NO, NA	NO, NA	NO, NA	NO, NA						
C_3F_8	NO, NA	NO, NA	NO, NA	NO, NA						
C_4F_{10}	NO, NA	NO, NA	NO, NA	NO, NA						
c-C ₄ F ₈	NO, NA	NO, NA	NO, NA	NO, NA						
C_5F_{12}	NO, NA	NO, NA	NO, NA	NO, NA						
C_6F_{14}	NO, NA	NO, NA	NO, NA	NO, NA						
C10F18	NO, NA	NO, NA	NO, NA	NO, NA						
c-C3F6	NO, NA	NO, NA	NO, NA	NO, NA						
Unspecified mix of PFCs(4) - (kt CO ₂ equivalent)	NO, NA	NO, NA	NO, NA	NO, NA						
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NO, NA	NO, NA	NO, NA	NO, NA						
Emissions of SF6 - (kt CO2 equivalent)	0.52	0.71	0.88	1.39	2.62	2.76	3.25	3.78	4.07	4.55
SF ₆	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions of NF3 - (kt CO2 equivalent)	NO, NA	NO, NA	NO, NA	NO, NA						
NF3	NO, NA	NO, NA	NO, NA	NO, NA						

 $\begin{tabular}{ll} Table 1(d) \\ Emission trends (HFCs, PFCs and SF_6) \\ (Sheet 3 of 3) \end{tabular}$

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)	79.57	83.14	79.68	82.11	90.96	108.46	
Emissions of HFCs - (kt CO2 equivalent)	79.57	83.14	79.68	82.11	90.96	108.46	
HFC-23	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-32	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-41	NO, NA						
HFC-43-10mee	NO, NA						
HFC-125	0.00	0.00	0.00	0.00	0.00	0.01	
HFC-134	NO, NA						
HFC-134a	0.04	0.04	0.04	0.04	0.04	0.05	
HFC-143	NO, NA						
HFC-143a	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-152	NO, NA						
HFC-152a	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-161	NO, NA						
HFC-227ea	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-236cb	NO, NA						
HFC-236ea	NO, NA						
HFC-236fa	NO, NA						
HFC-245ca	NO, NA						
HFC-245fa	NO, NA						
HFC-365mfc	0.00	0.00	0.00	0.00	0.00	0.00	
Unspecified mix of HFCs(4) - (kt CO ₂ equivalent)	NO, NA						
Emissions of PFCs - (kt CO2 equivalent)	NO, NA						
CF ₄	NO, NA						
C_2F_6	NO, NA						
C_3F_8	NO, NA						
C_4F_{10}	NO, NA						
c-C ₄ F ₈	NO, NA						
C_5F_{12}	NO, NA						
C_6F_{14}	NO, NA						
C10F18	NO, NA						
c-C3F6	NO, NA						
Unspecified mix of PFCs(4) - (kt CO ₂ equivalent)	NO, NA						
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NO, NA						
Emissions of SF6 - (kt CO2 equivalent)	5.23	7.33	7.35	7.47	7.78	8.50	
SF ₆	0.00	0.00	0.00	0.00	0.00	0.00	
Emissions of NF3 - (kt CO2 equivalent)	NO, NA						
NF3	NO, NA						

 $\label{lem:abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and forestry.$

Custom Footnotes

Documentation Box:

^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.

^cEnter 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.

^dIn 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.)

Table 2(a) LVA_BR2_v2.0

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

Party	Latvia	
Base year /base period	1990	
Emission reduction target	% of base year/base period	% of 1990 ^b
	20.00	20.00
Period for reaching target	BY-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) LVA_BR2_v2.0

Description of quantified economy-wide emission reduction target: gases and sectors ${\bf covered}^a$

Gas	ses covered	Base year for each gas (year):
CO ₂		1990
CH ₄		1990
N_2O		1990
HFCs		1995
PFCs		NA
SF ₆		1995
NF ₃		NA
Other Gases (specify)		
Sectors covered ^b	Energy	Yes
,	Transport ^f	Yes
	Industrial processes ^g	Yes
	Agriculture	Yes
	LULUCF	No
	Waste	Yes
	Other Sectors (specify)	
	Aviation in the scope of the EU-ETS	Yes

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) LVA_BR2_v2.0

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) LVA_BR2_v2.0

Description of quantified economy-wide emission reduction target: approach to counting emissions and removals from the LULUCF ${\sf sector}^a$

Role of LULUCF	LULUCF in base year level and target	Excluded
	Contribution of LULUCF is calculated using	

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 LVA_BR2_v2.0

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

Market-based mechanisms	Possible scale of contributions
under the Convention	(estimated kt CO ₂ eq)
CERs	NA
ERUs	NA
AAUs ⁱ	NA
Carry-over units ^j	NA
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.

 $^{^{\}it d}$ 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 LVA_BR2_v2.0

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 econom	ny-wide emission reduction targe	et: any other information ^{a,b}	

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Custom Footnotes

Table 2(f)

^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.

Table 3

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

				1	1				1	1	
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 mitigati cumulative, in k	kt CO 2 eq)	
Investment Support Programme for District Heating (DH) Systems: 2007-2013 EU Funds programming period*	Energy	CO ₂	Effective use of fuel in the DH systems, reducing energy loss and emissions, increasing the share of RES (both for heat and CHP production)	Economic	Implemented	Increasing the efficiency of heat supply production, reducing the loss of heat energy in the DH transmission & distribution systems and fostering the replacement of imported fossil fuels with RES, including the increase of the CHP production utilising the RES. In financial programming period of 2007-2013 the support was provided by the Cohesion Fund in the frame of National operational programme "Infrastructure and services", part "Energy" (activities No3521&3522).	2010	Ministry of Economy	390	390	2025 390
Energy Efficiency Requirements for District Heating Systems *	Energy	CO ₂	More effective use of fuel in the DH system, reducing energy loss and emissions	Regulatory	Implemented	The Governmental Regulations No 1214 (2009) had defined the mandatory minimum energy efficiency for new and reconstructed DH networks put into operation after 01.01.2010. The minimum requirements were stated: 1) efficiency of heat production boilers - 92% (gaseous), 85% (liquid), 75% (solid), 2) efficiency of CHP units - 80% (gaseous & liquid), 75% (solid), 3) annual maximum heat loss in DH pipeline network - 22%.	2010	Ministry of Economy	IE PM I	IE PMI	IE PM1
Investment Support in Industrial Buildings' and Technologies' Energy Efficiency to Reduce GHG emissions*	Industry/industria l processes	CO ₂	Reduction of CO2 emissions in industrial/business sector entities	Economic	Implemented	Receipts from the sale of GHG emissions (pursuant to Art.17 of UNFCC Kyoto protocol) were earmarked as national Climate Change Financial Instrument (CCFI). Part of them were allocated for CO2 emissions reduction in industrial/business sector entities. Eligible investments included energy efficiency investments of different kind both in buildings and technological equipment; installation of efficient lightning; heat supply switch from fossils to RES & installation of RES based heat supply system (up to 3 MW). Commercial sector entities, which corresponds to certain NACE codes, may apply as well.	2010	Ministry of Environment and Regional Development	38	38	38
Investment Support Programme in Renewable Technologies for Heat and Electricity Production to Reduce GHG emissions *	Energy	CO ₂	Reduction of CO2 emission by installation of RES technologies for both heat, power and CHP production,	Economic	Implemented	The support was available from the receipts of the sale of GHG emissions (national Climate Change Financial Instrument). The eligible beneficiaries were both business sector entities and public sector institutions	2010	Ministry of Environment and Regional Development	105	105	105

Table 3

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

Name of mitigation action	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 mitigate cumulative, in i			
									2015	2020	2025	$\overline{}$
Investment Support to Produce Energy from Biomass of Agriculture and Forestry Origin: 2007-2013 EU Funds programming period*	Energy	CO ₂ , CH ₄	Reduction of GHG emissions by electricity production in CHP mode by utilising biogas fermented in anaerobic processes from biomass of an agricultural origin.	Economic	Implemented	In financial period of 2007-2013 the support was provided by national Rural Development Programme within the sub-measure 312/311(3) for the agriculture sector business entities & service cooperatives to develop the production of electricity and heat in CHP mode by utilising biogas fermented in anaerobic processes from biomass of an agricultural or forestry origin.	2010	Ministry of Agriculture	69.3	69.3	2023	69.3
Investment Support to Produce Energy from Biomass of Agriculture Origin: 2014-2020 EU Funds programming period	Energy	CO ₂ , CH ₄	Reduction of GHG emissions by electricity production in CHP mode by utilising biogas fermented in anaerobic processes from biomass of an agricultural origin.	Economic	Planned	In financial programming period of 2014-2020 the support is provided by national Rural Development Programme within the framework of the Measure 06 "Farm and business development by supporting the non-agriculture activity", Priority 5C, to develop the production of electricity and heat in CHP mode by utilising biogas fermented in anaerobic processes from biomass of an agricultural origin.		Ministry of Agriculture	0	10		12
Investment Support Programmes to Increase Energy Efficiency in Apartment Buildings: 2007-2013 EU Funds Programming Period*	Energy	CO ₂	More efficient use of final energy, reducing energy losses and emissions by involving end-users to increase energy performance of buildings.		Implemented	In financial period of 2007-2013 the investments in energy efficient building renovation were co-financed from the EU Regional Development Fund under the Latvia national operational programme "Infrastructure and Services", activity No.344 "Energy Efficiency in Housing". The measure had 2 target audiences: 1) apartments owners of multi-apartment residential buildings, and 2) tenants of municipal social residential buildings.	2008	Ministry of Economy	43	43		43
Energy Performance of Buildings*	Energy	CO ₂	Reducing final energy and emissions in buildings by increasing energy efficiency and public informing	Regulatory	Implemented	The recasted Law on the Energy Performance of Buildings (adopted Dec 2012) recast the general legal framework of setting the mandatory minimum energy performance requirements for buildings, the general principles of mandatory energy efficiency certification for buildings, verification of buildings heating and ventilation systems. The energy efficiency classification system for buildings are introduced by Governmental Regulations general legal framework of setting the mandatory minimum energy performance requirements for buildings, the general principles of mandatory energy efficiency certification	2013	Ministry of Economy	NE	NE		NE

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Name of mitigation action	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 cumulative, in k	t CO 2 eq)	
Agreements on Energy Efficiency, promoting energy audits and energy management systems in industrial enterprises*	Energy	CO ₂	Raising energy efficiency in industry sector (in industrial buildings and technologies)	Voluntary Agreement	Implemented	The objective of the particular agreement is to achieve in the company the energy saving of at least 10%	2011	Ministry of Economy	2015 IE PAM 3	2020 IE PAM 3	2025 IE PAM 3
Energy Audits of Residential Multi- apartment buildings*	Energy	CO ₂	More efficient use of final energy, reducing energy loss and emissions by providing recommendations for increasing energy efficiency		Implemented	In 2009-2010 the government provided the financial support to realise energy audit and prepare the documentation necessary for building renovation projects. Afterwards the financial support is provided by a number of municipalities. Within the framework of eligible costs provided for renovation works by ERDF (see previous Policy 9), the financing is provided also for energy audit and preparation of construction works' technical documentation as the first stage of renovation project.	2009	Ministry of Economy	NE	NE	NE
Informing Energy Consumers of Residential Sector (Multi-apartment buildings)*	Energy	CO ₂	To inform final energy consumers of the energy efficiency measures and their economic benefits.	Information	Implemented	The measure (i) motivates flats' owners to renovate them in the frame of the ERDF supported activity of Increasing energy efficiency in multi-apartment buildings (the Policy 9 above), (ii) informs and consults buildings' management companies and societies of the flats' owners regarding conditions and benefits of the Policy 9, (iii) encourages building companies, building materials producers and traders to take initiatives regarding renovation of multi-apartment buildings, (iv) raises understanding on energy efficiency and thus promotes to reduce heat energy consumption. The measure will be continued in 2014-2020 EU Funds programming period as well.	2010	Ministry of Economy	NE	NE	NE

Table 3

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			CO ₂ eq)	not		
Financial Support (Grants) for Renewable Energy Technologies in Households*	Energy	CO ₂	CO2 emissions reduction by implementing RES based heat and electricity micro- generation technologies in households	Economic	Implemented	The financial support (particular programme of national Climate Change Financial Instrument) was available from the revenues of the sale of GHG emissions (under procedures pursuant to Art. 17 of UNFCCC Kyoto protocol). Eligible micro-generation technologies were: solar heat collectors (up to 25 kW), solar electricity (up to 10 kW), wind (up to 10 kW), wood, wood chips, wood pellets and straw technologies (up to 50 kW), heat pumps (up to 50 kW) as well as combined use of above technologies. Both existing houses and new buildings registered under construction were eligible. The support for 1 project might be up to 9960 EUR.		Ministry of Environment and Regional Development	2015	15	2020	15	2025	15
Investment Support Programmes in Public Sector Energy Efficiency*	Energy	CO ₂	Reduction of CO2 emissions in public (municipal and state) sector	Economic	Implemented	The financial support (particular programmes of national Climate Change Financial Instrument) was available from the revenues of the sale of GHG emissions (under procedure pursuant to Art.17 of UNFCCC Kyoto protocol). The support was available to improve heating and lightning energy efficiency as well as to realize fuel switch to RES in the public buildings	2010	Ministry of Environment and Regional Development		54		54		54
Promotion Public Understanding on the Importance and Possibilities of GHG Emissions Reduction*	Cross-cutting	CO ₂	Promotion Public Understanding on the Importance and Possibilities of GHG Emissions Reduction	Information	Implemented	Years 2010-2013. The financial support (particular programme of national Climate Change Financial Instrument) was provided from the revenues of the sale of GHG emissions (under procedures pursuant to Art.17 of UNFCCC Kyoto protocol). The support was available for publications in mass media for both general and targeted audiences, thematic broadcasts, organisation of thematic workshops and trainings for targeted audience groups, educational projects. Years 2015-2016. The measure is supported by the programme "National Climate Policy" of the EEA Financial Mechanism for years 2009-2014. The following activities are supported: education/training programmes for different audiences, information campaigns and public actions in mass media, websites, radio, TV.	2011	Ministry of Environment Protection and Regional Development		NE		NE		NE

Table 3

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			t CO 2 eq)	not		
Energy Labelling on Household Appliances*	Energy	CO ₂	Reducing energy consumption and emissions in households	Regulatory	Implemented	The current mandatory energy labelling for household electrical appliances is established by the set of relevant EC Delegated Regulations (The Governmental Regulations on labelling for the first time in Latvia had been issued in 2001. The mandatory energy labelling, corresponding to the requirements of EC Directives, was established in Latvia by the set of Governmental Regulations in 2004 when Latvia had joined EU). The requirements relating to the publication of information / labelling on the consumption of energy by household appliances allow consumers to choose appliances on the basis of their energy efficiency.		Ministry of Economy	2015	NE	2020	NE	2025	NE
Biofuel Mix Obligation Requirement*	Transport	CO ₂	Increasing the share of RES in the fuel balance of transport sector	Regulatory	Implemented	In 01.10.2009 Latvia had introduced the Biofuel Mix Obligation Requirement (Governmental Regulations No.648, 25.06.2009, Art. 8.1&9.1). 4.5-5% (volume) bioethanol mix is mandatory for the gasoline of "95" trademark. 4.5-5% (volume) biodiesel mix is mandatory for the diesel fuel, including diesels of A-F categories, utilised in moderate climate conditions, exemption is made for diesels of 0-4 classes utilised in case of arctic/winter climate conditions	2010	Ministry of Economy		81		81		81
Excise Tax – Transport sector*	Transport	CO ₂	To provide economic incentives regarding effective use of transport fuel and use of RES fuel in transport, thus reducing emissions		Implemented	"The procedure is established by the Law ""On Excise Duties"". The Art. 14 determines the rates of duty for mineral oils and their substitutes. Regarding transport sector the reduced tax rates currently are applied for produced in Latvia or imported from EU member states: (1) gasoline with 70-85% (volume) of ethanol produced from agriculture origin raw materials, and (2) pure biodiesel is exempted from taxation. The Amendments, adopted 17 December 2014, had cancelled the reduced tax rate for the diesel (gas oil) with at least 30% (volume) mix. The reduced tax rate is applied for certain amount of diesel which is used for agriculture sector land cultivation and production purposes. Starting from 2010, the amendments of the Law have introduced the excise tax also for natural gas used in transport sector.		Ministry of Economy, Ministry of Finance		NE		NE		NE

Table 3

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

Name of mitigation action	on ^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 mitigate cumulative, in	kt CO 2 eq)		
Applying of differential tax rates for transport vehicles depending on age and engine size or on CO2 emission factor*		Transport	CO ₂	To foster the economic advantages of vehicles with a smaller engine size and less fuel consumption, thus reducing emissions	Fiscal	Implemented	The measure is aimed at structural changes of the car fleet, which will foster a reduction in fuel consumption and the number of kilometres driven. In addition, the measure will foster a reduction in the average age of vehicles, which will also have a positive impact on the efficient use of energy. The actual legal system is established by 2 laws: (1) the law "On the Vehicle Operation Tax and Company Car Tax" determines annual taxation system for cars, (2) "The Law On Car and Motorcycle Tax" determines the taxation procedure for the car's first time registration in Latvia; the amendments of this law introduced a new taxation approach depending on CO2 emission factor per km for the new cars, previously non-registered or have been registered abroad after 01.01.2009		Ministry of Transport, Ministry of Finance	2015 41	41	2025	41
New Passenger Cars Labelling on Fuel Economy Rating*		Transport	CO ₂	To motivate car owners to choose fuel consumption and CO2 emissions efficient car	Information	Implemented	The labelling of cars regarding fuel consumption (litres per 100 km or km per litre) and CO2 emissions (grams per km)	2003	Ministry of Economy, Ministry of Transport	56	56		56
Taxation of Electricity*		Energy	CO ₂	To provide economic incentives for rational use of electricity	Fiscal	Implemented	The procedure is prescribed by the Electricity Tax Law. Tax shall apply to entities who are engaged in the generation, distribution, supply, selling of electricity as well as purchasing electricity in electricity spot excahnge. The exemptions are made 1) for the electricity obtained (i) from renewable energy sources, (ii) in hydro power stations, (iii) in CHP stations complying with the efficiency criteria specified in the regulatory enactments; 2) for the electricity used for: (i) electricity generation, (ii) the generation of heat energy and electricity in CHP mode, (iii) the carriage of goods and public carriage of passengers, including rail transport and public transport in towns, (iv) household users, (v) street lighting services. 3) for autonomous producers if they correspond to certain criteria.		Ministry of Economy, Ministry of Finance	NE .	NE		NE

Table 3 Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation acti	ion ^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 mi cumulative		not	2025	
Taxation of CO2 emissions *		Energy	CO ₂	To provide economic incentives to reduce CO2 emissions	Fiscal	Implemented	The procedure is prescribed by the Natural Resources Tax Law. The subject of CO2 taxation is CO2 emitting activities (installations) requiring a GHG emission permit - if the amount of the activity (installation) is below the limit defined for inclusion in EU ETS. The tax shall not be paid (Article 10) (i) for the CO2 emissions which emerges from the installations participating in the EU ETS, and (ii) while using renewable energy sources and peat. The tax rate per 1 ton of CO2 emission is gradually raised up from the starting rate 0.142 EUR up to 3.50 EUR (from 01.01.2015).		Ministry of Economy, Ministry of Finance	1	NE	NE		NE
Taxation on Noxious Air Polluting Emissions *		Energy	CO ₂	To provide economic incentives to reduce noxious air emissions, thus providing synergy with CO2 reduction, by the use of more energy efficient and less polluting technologies		Implemented	The procedure is prescribed by the Natural Resources Tax Law. The emissions of PM10, CO, SO2, NOx, NH3, H2S and other nonorganic compounds, CnHm, VOC, metals (Cd, Ni, Sn, Hg, Pb, Zn, Cr, As, Se, Cu) and their compounds, V2O5 are taxable. Improvement of combustion processes as the technical measure to controll noxious emissions results in reducing fuel consumption as well thus creating synergy with GHG emissions emerging in both ETS and non-ETS sectors.		Ministry of Economy, Ministry of Finance	1	NE	NE		NE
Systematic inspection of the technical conditions*		Transport	CO ₂	To provide exploitation of transport vehicles in accordance with the technical requirements of the manufacturer thus reaching improvements in fuel consumption and reducing emissions	Regulatory	Implemented	Mandatory annual technical inspections of motor vehicles ensure that only those vehicles that comply with technical and environmental requirements are being allowed to take part in road transport	1996	Ministry of Transport, Road Traffic Safety Directorate	1	NE	NE		NE

Table 3 Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation actio	n ^a Sector(s, affected ^t		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 mitigate cumulative, in 2015		2025
Development of public transport network*	Transport	CO ₂	To decrease total fuel consumption by further development and optimisation of public transport network	Economic	Implemented	The given measure envisages the improvement of the system of public transport network; revision of the public transport subsidising system (to avoid simultaneous subsidising of parallel functioning regional and intercity buses and railway routes), harmonisation of traffic schedules; etc. Significant investments for environmentally friendly public transport, including trams and buses, infrastructure development is allocated for 2014-2020 EU Funds planning period (national Operational Programme "Growth and Employment", investment priority No4.5)		Ministry of Transport	NE NE	NE NE	NE NE
Performance of Heat Generators for Space Heating and the Production of Hot Water*	Energy	CO ₂	Reducing energy and emissions by prescribing essential requirements for heat boilers	Regulatory	Implemented	In 26 September 2013 the Commission Regulation (EU) No 813/2013 of 2 August 2013 had come into force. Latvia has used the transition period. Namely, up to 26 September 2015 the Latvia Governmental Regulations on Hot-Water Boilers are in force. These Regulations prescribe the essential energy efficiency requirements for water heating boilers, fuelled by gaseous or solid fuels with nominal heat capacity in the range of 4-400 kW and used for heat supply	2004	Ministry of Economy	NE	NE	NE
Preferential Feed-in Tariffs for Renewables*	Energy	CO ₂	Increasing RES utilization in the electricity supply	Economic	Implemented	Application of RES feed-in tariffs in dependence of RES type and unit capacity. In the period 26 May 2011 - 01 January 2016, according Governmental Regulations, new RES electricity producers may not receive rights for selling electricity within the scope of mandatory procurement.		Ministry of Economy	IE PM1&PM5	IE PM1&PM5	IE PM1&PM5
Preferential Feed-in Tariffs for Combined Heat-Power Production*	Energy	CO ₂	Increasing CHP production in the electricity supply	Economic	Implemented	Application of CHP feed-in tariffs in dependence of fuel type and unit capacity. In the period 10 September 2012 - 01 January 2016, according Governmental Regulations, new CHP producers may not receive rights for selling electricity within the scope of mandatory procurement.	1996	Ministry of Economy	IE PM1&PM5	IE PM1&PM5	IE PM1&PM5

Name of mitigation actio	n 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 mitigal cumulative, in		
										2015	2020	2025
Energy Certification of Buildings*	E	inergy	CO ₂	More efficient use of final energy, reducing energy loss and emissions by implementing buildings' certification for increasing energy efficiency		Adopted	The Governmental Regulations No.383 "On Energy Certification of Buildings" (adopted 09 July 2013) introduce six (A-F) energy efficiency classes for residential buildings and five classes (A-E) for non-residential buildings	2013	Ministry of Economy	NE	NE	NE
Increased minimum thermal insulation standards of buildings*	E	inergy	CO ₂	More efficient use of final energy, reducing energy loss and emissions by implementing thermal insulation standards during construction process	Regulatory	Implemented	The actual (2014) version of Latvian Construction Standard LBN002-01 "Thermotechnics of Building Envelopes" introduce increased standards for heat transmittance coeficients for the construction elements	2014	Ministry of Economy	NE	NE	NE
Investment Support Programme for District Heating (DH) Systems: 2014-2020 EU Funds programming period	E	inergy	CO ₂	Effective use of fuel in the DH systems, reducing energy loss and emissions, increasing the share of RES for heat production	Economic	Planned	"The increasing efficiency and RES share in DH supply systems is supported within the framework of the new National Operational Programme "Growth and Employment", Thematic Objective No4 "Supporting the shift towards a low-carbon economy in all sectors", Specific Objective 4.3.1. "To promote energy efficiency and use of local RES in the district heating supply". Indicative activities to be supported:(i) reconstruction for increase of energy efficiency of heat production sources and use of RES, (ii) reconstruction and construction of district heat transmission and distribution systems aimed at reducing heat losses."	2016	Ministry of Economy	0	67	71.5

Table 3 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 ^c	Start year of implementation	Implementing entity or entities		eation impact (not in kt CO 2 eq)	2	2025
Investment Support in Manufacturing Industry sector to promote energy efficiency and RES use	Industry/industria 1 processes	CO ₂	Efficient use of energy resources, reduction of energy consumption and transfer to RES in manufacturing industry	Economic	Planned	"Development of new, innovative energy-saving technology, measures increasing energy efficiency and share of RES is supported within the framework of the new national Operational Programme "Growth and Employment", Thematic Objective No4 "Supporting the shift towards a low-carbon economy in all sectors", the Specific Objective 4.1.1. Indicative activities to be supported: (i) measures for the improvement of energy efficiency of buildings of manufacturing industry enterprises, (ii) energy certification of buildings, (iii) acquisition and installation of new and efficient thermal (heat) energy, electricity producing and water boiler production equipment using RES.	2016	Ministry of Economy	0			17
Investment Support to Improve Energy Efficiency in Food Processing Enterprises	Industry/industria l processes	CO ₂	improvement of energy efficiency of food processing enterprises and agriculture sector in general	Economic	Planned	The financial support is provided within the framework of the Measure 04 "Investments" of the national Rural Development Programme, under the priority 5B (other investments may bring energy efficiency improvements indirectly as well).	2016	Ministry of Agriculture	NE	. NE	3	NE
Investment Support Programme to Increase Energy Efficiency in Apartment Buildings: 2014-2020 EU Funds programming period	Energy	CO ₂	More efficient use of final energy, reducing energy loss and emissions by involving end-users to increase energy performance of buildings		Planned	Increasing of energy efficiency in multi- apartment buildings is supported within the framework of the national Operational Programme "Growth and Employment": Thematic Objective No4 "Supporting the shift towards a low-carbon economy in all sectors", Specific Objective 4.2.1. "To increase energy efficiency in public and residential buildings". The financial assistance will be provided in the following forms of subsidy (grant), repayable loan with low interest rate, guarantee for the loan. Subsidy will apply if the certain required energy efficiency level after renovation works will be reached.	2016	Ministry of Economy	C	22	2	26

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Name of mitigation acti	ion ^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 r		CO 2 eq)	not	2025	
Investment Support Programme to Increase Energy Efficiency in Public (State Central Government) Buildings: 2014-2020 EU Funds programming period		Energy	CO ₂	More efficient use of final energy, reducing energy loss and emissions by increasing energy performance of buildings	Economic	Planned	"Increasing of energy efficiency in state (central government) public buildings is supported within the framework of the national Operational Programme "Growth and Employment": Thematic Objective No4 "Supporting the shift towards a low-carbon economy in all sectors", Specific Objective 4.2.1. "To increase energy efficiency in public and residential buildings". Positive financial return of investments is the most important criterion for support.	2016	Ministry of Economy	2015	0	2020	14	2025	14
Investment Support Programme to Increase Energy Efficiency in Municipal Buildings: EU Funds Programming Period of 2014-2020		Energy	CO ₂	More efficient use of final energy, reducing energy loss and emissions by increasing energy performance of buildings	Economic	Planned	"Increasing of energy efficiency in public buildings of municipalities is supported within the framework of the national Operational Programme "Growth and Employment", Thematic Objective No4 "Supporting the shift towards a low-carbon economy in all sectors", the Specific Objective 4.2.2. "To facilitate the increase of energy efficiency in municipal buildings, according to the integrated development programme of the municipality".	2016	Ministry of Economy		NE		NE		NE
Investments in Biomass Technologies for Heat Production to Reduce GHG Emissions		Energy	CO ₂	Contribute to achieving the Latvian climate goals for 2020 and 2030, by implementation of activities in the non-ETS sector - replace the existing fossil fuels with renewable energy resources.	Economic	Planned	Latvia has revenues from the auctioning of Latvia's allocated EU ETS GHG emission quotas, these revenues form the national Emissions Quotas Auctioning Financial Instrument will provide co-financing for the described particular measure. The measure will intend to provide financial support for the transition from fossil energy sources based to biomass-based heat producing technologies, which will result in CO2 emissions reduction.	2016	Ministry of Environment Protection and Regional Development		0		15		15

Table 3 Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation acti	ion ^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 mitigati cumulative, in k		2025
Electromobility Development	Tra	ansport	CO ₂	CO2 reduction by use of electric vehicles	Economic	Planned	Year 2014. The financial support (particular programme of national Climate Change Financial Instrument) was provided from the revenues of the sale of GHG emissions (under procedures pursuant to Art.17 of UNFCCC Kyoto protocol). The support was available for purchase of electric vehicles and installation of public charging points. Years 2015-2022. Development of electric vehicles charging infrastructure is supported within the framework of the new national Operational Programme "Growth and Employment", Thematic Objective No4 "Supporting the shift towards a low-carbon economy in all sectors", Investment Priority 4.4., To promote low-carbon strategies for all types of territories, in particular for urban areas, including the promotion of sustainable multimodal urban mobility and mitigation-relevant adaptation measures", the Specific Objective 4.4.1. "To develop EV charging infrastructure in Latvia" corresponding to this Investment priority. Thus creation of electric vehicles charging network as crucial precondition for electromobility development will be reached.	2016	Ministry of Environment Protection and Regional Development	NE	NE	NE
Implementation of the EU Emissions Trading Scheme*	Inc	nergy, dustry/industria rocesses	CO ₂	Reduction of CO2 emissions emitted by EU ETS operators	Regulatory	Implemented	Limitation of amount of emission quota allocated for ETS operators	2005	Ministry of Environment Protection and Regional Development	NE	NE	NE
Latvia National Renewable Action Plan	En	iergy	CO ₂	Target is to increase the use of RES from 32.6% of gross final energy consumption (GFEC) in 2005 up to 40% in 2020, and to increase it gradually thereafter	Regulatory	Planned	Latvia's Renewable Energy Action Plan sets the following sub-targets regarding the share of renewable energy in 2020, this share must reach (i) in the transport sector - at least 10% of GFEC, (ii) in the electricity sector - at least 59.8% of GFEC, (iii) in the heating and cooling sector - 53.4% of GFEC.		Ministry of Economy	163	192	192

Table 3

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

Name of mitigation action	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)				
				ĺ					2015		2020	2025	$\overline{}$
Organic farming	Agriculture	N ₂ O	Expanding organic farming area for reduction of fertilizer/manure use on cropland and support other activities improving cropland management	Economic	Planned	Farming methods with environmentally friendly influence on nature, reduction of synthetic nitrate use and leaching, increased biodiversity. The state support for organic farmers through subsidies.	2016	Ministry of Agriculture	2010	0	193	2020	213
Precision agriculture technologies	Agriculture	N ₂ O, CH ₄	Reduction of GHG emissions	Voluntary Agreement	Planned	Reduction of N2O emissions	2016	Ministry of Agriculture		NE	NE		NE
Precision livestock feeding strategies	Agriculture	CH ₄ , N ₂ O	Improved livestock management	Voluntary Agreement	Planned	reduction of GHG emissions	2016	Ministry of Agriculture		NE	NE		NE
"Introduction of leguminous plants on arable land"	Agriculture	N ₂ O	"improving cropland management by increasing 5% leguminous plants in arable land structure"	Voluntary Agreement	Planned	Support to use of legumes as green manure and fodder in crop rotation	2016	Ministry of Agriculture		NE	NE		NE
Management of nitrate vulnerable territories*	Agriculture	N ₂ O	Reduction of fertilizer/manure use on cropland	Regulatory	Implemented	"Restriction for nitrogen usage, reduction of nitrogen leaching. Water protection against pollution caused by nitrates from agricultural sources. Rules for management of vulnerable zones"	2014	Ministry of Agriculture		NE	NE		NE
Requirements for the protection of soil and water from agricultural pollution caused by nitrates*	Agriculture	N ₂ O	Regulations for N fertilizer and manure usage.	Regulatory	Implemented	Restriction for nitrogen usage, reduction of nitrogen leaching. The limit of 170 kg nitrogen from manure and digesters per hectare, limits for other fertilizers use.Reduction of nondirect N2O emissions	2014	Ministry of Agriculture		NE	NE		NE
Crop fertilization plans*	Agriculture	N ₂ O	Providing calculations of N content of manure, determining N requirements for a certain crop upon planning the expected yield	Regulatory	Implemented	"If managed land is over 20 ha at vulnerable territories farms prepare crop fertilization plans. Providing calculations of N content of manure, determining N requirements for a certain crop upon planning the expected yield."	2012	Ministry of Agriculture		NE	NE		NE
"Requirements for manure storage and spreading"*	Agriculture	CH ₄ , N ₂ O	Requirements for storing of manure to improve animal waste management systems	Regulatory	Implemented	Specify the requirements for storing of manure outside animal shed Requirements refer to farms with more than 10 AU (animal units), and 5 AU in vulnerable territories.		Ministry of Agriculture		NE	NE		NE

Table 3

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 mitigat cumulative, in	kt CO ₂ eq)	
Integrated farming*	Agriculture	N ₂ O	to improve cropland management and reduction of agriculture pollution	Voluntary Agreement	Adopted	"The growing of agricultural products utilising environmentally friendly measures, preserving biological diversity and reducing risks to human health and the environment, at the same time ensuring plant protection, animal health and welfare measures."		Ministry of Agriculture	2015 NE	2020 NE	2025 NE
Cropland drainage	Agriculture	CO ₂	improving of cropland management	Economic	Planned	Restoration of malfunctioning drainage systems in cropland	2016	Ministry of Agriculture	0	6	6
Production of legumes	Agriculture	CO ₂	to improve management of organic soils	Economic	Planned	Support to use of legumes as green manure and fodder in crop rotation	2016	Ministry of Agriculture	NE	NE	NE
"Reducing of biodegradable waste landfilling"*	Waste management/wast e	CH ₄	Reduce amount of landfilled biodegradable wastes	Regulatory	Implemented	"Decreasing of the maximum amount of biologically degradable municipal wastes deposited on landfills according to the Landfill Directive 99/31/EC. Till 2020 reduce biodegradable waste disposing till 35% of 1995 biodegradable waste amount."	2006	Ministry of Environment Protection and Regional Development	46	92	92
Municipal waste recycling*	Waste management/wast e	CH ₄	Enhance recycling	Regulatory	Implemented	Increase waste recycling to reach recycling share 50% till 2020	2012	Ministry of Environment Protection and Regional Development	NE	NE	NE
Regulations on emissions of pollutants into the aquatic environment*	Waste management/wast e	CH ₄	To provide complient treatment of urban waste water in agglomerations larger than 2000 p.e.		Implemented	Current national law is taking into account EC Directive on Urban Waste Water Treatment, aimed to protect surface waters from organic pollution and requiring to provide proper treatment of urban waste water from settlements large enough (i.e. agglomerations) to be source of significant pollution.		Ministry of Environment Protection and Regional Development	NE	NE	NE
Reduce emissions of fluorinated greenhouse gases*	Industry/industria l processes	HFCs, PFCs	Reduction of emissions of fluorinated gases; Replacement of fluorinated gases by other substances	Regulatory	Implemented	Regulations for the containment, use, recovery and destruction of certain fluorinated greenhouse gases. These rules accompany the provisions relating to the labelling of products and equipment containing these gases, to the notification of information, to prohibitions on commercialisation, as well as to the training and certification of personnel and enterprises.	2006	Ministry of Environment Protection and Regional Development	NE	NE	NE

2025		Estimate of mitiga cumulative, in	Implementing entity or entities	Start year of implementation	Brief description ^e	Status of implementation ^d	Type of instrument c	Objective and/or activity affected	GHG(s) affected	Sector(s) affected ^b	Name of mitigation action ^a
	2020 NE	NE	Ministry of Environment Protection and Regional Development	2015	Prevent and minimise emissions of fluorinated greenhouse gases. Bans on the placing on the market, maintainance and service products and equipment containing HFCs with high GWPs.	Implemented	Regulatory	Reduction of emissions of fluorinated gases; Replacement of fluorinated gases by other substances	HFCs, PFCs	Industry/industria l processes	Reduce emissions of fluorinated greenhouse gases.*
NE	NE	NE	Ministry of Environment Protection and Regional Development		"Regulation lay down the requirements for the EC type approval or national type-approval of vehicles as regards emissions from, and the safe functioning of, air-conditioning systems fitted to vehicles. Regulation contains provisions on retrofitting and refilling of such systems. These requirements are set according to objective of EU policy to reduce emissions of fluorinated greenhouse gases in the air-conditioning systems fitted to passenger cars and light commercial vehicles and prohibit from a certain date air-conditioning systems designed to contain F-gases with a global warming potential higher than 150."	Implemented	Regulatory	Reduction of emissions of fluorinated gases. Improved control of fugitive emissions from F gases consumption.	HFCs, PFCs	Industry/industria 1 processes	Improve control of fugitive emissions from F gases consumption and phase out particular F gas used in Mobile air conditioning*
NE	NE	NE	Ministry of Agriculture		Provides the basis for a formal inclusion of the LULUCF sector and ensures a harmonized lega framework allowing the collection of reliable data by robust accounting and reporting in a standardised way.	Adopted	Regulatory	Robust accounting of LULUCF activities across Europe	CO ₂	Forestry/LULUC F	LULUCF accounting (LULUCF Decision 529/2013/EU)*

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 expost 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.

Optional year or years deemed relevant by the Party.

Reporting on progress^{a, b}

	Total emissions excluding LULUCF	Contribution from LULUCF ^d	Quantity of units fi mechanisms unde		Quantity of units from mechan	
Year c	(kt CO 2 eq)	(kt CO 2 eq)	(number of units) (kt CO 2 eq)		(number of units)	(kt CO ₂ eq)
(1990)	26,326.48		NA		NO	
2010	12,011.12		NA	NA		
2011	11,244.09		NA		NO	
2012	11,078.53		NA		NO	
2013	11,025.43		NA, NO		NO	
2014	NA		NO, NA		NO	

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

Custom Footnotes

Total GHG emissions (with indirect), including domestic and international aviation, but excluding LULUCF, as reported to the UNFCCC in 2015. Thus no data for 2014 is available.

^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.

 $^{^{\}ensuremath{^{c}}}$ 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.

Table 4(a)I LVA_BR2_v2.0

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	q)		
Total LULUCF					
A. Forest land					
Forest land remaining forest land					
2. Land converted to forest land					
3. Other ^g					
B. Cropland					
Cropland remaining cropland					
2. Land converted to cropland					
3. Other ^g					
C. Grassland					
Grassland remaining grassland					
2. Land converted to grassland					
3. Other ^g					
D. Wetlands					
Wetland remaining wetland					
2. Land converted to wetland					
3. Other ^g					
E. Settlements					
1. Settlements remaining settlements					
2. Land converted to settlements					
3. Other ^g					
F. Other land					
Other land remaining other land					
2. Land converted to other land					
3. Other ^g					
Harvested wood products					

 $\label{eq:abbreviations} Abbreviations: GHG = greenhouse \ gas, LULUCF = land \ use, \ land-use \ change \ and \ forestry.$

Custom Footnotes

Numbers for LULUCF are not reported because this sector is not included under the Convention target

^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).

[§] 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.

Table 4(a)I LVA_BR2_v2.0

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 $^{\rm a,\,b}$

	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 ec	<i>a)</i>		
Total LULUCF					
A. Forest land					
Forest land remaining forest land					
2. Land converted to forest land					
3. Other ^g					
B. Cropland					
Cropland remaining cropland					
2. Land converted to cropland					
3. Other ^g					
C. Grassland					
Grassland remaining grassland					
2. Land converted to grassland					
3. Other ^g					
D. Wetlands					
Wetland remaining wetland					
2. Land converted to wetland					
3. Other ^g					
E. Settlements					
1. Settlements remaining settlements					
2. Land converted to settlements					
3. Other ^g					
F. Other land					
1. Other land remaining other land					
2. Land converted to other land					
3. Other ^g					
Harvested wood products					

 $\label{eq:abbreviations} Abbreviations: GHG = greenhouse \ gas, \ LULUCF = land \ use, \ land-use \ change \ and \ forestry.$

Custom Footnotes

Numbers for LULUCF are not reported because this sector is not included under the Convention target

^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.

Reporting on progress $^{a, b, c}$

	Illuite of word at board week and		Year	
	Units of market based mechanisms		2013	2014
	V . D . I .	(number of units)	NA, NO	NO, NA
	Kyoto Protocol units	(kt CO ₂ eq)		
	4.477	(number of units)	NA	NA
	AAUs	(kt CO2 eq)		
	EDII	(number of units)	NA	NA
Kyoto Protocol	ERUs	(kt CO2 eq)		
units ^d	GER	(number of units)	NA	NA
unus	CERs	(kt CO2 eq)		
	GUP	(number of units)	NO	NO
	tCERs	(kt CO2 eq)		
	LOUD	(number of units)	NO	NO
	ICERs	(kt CO2 eq)		
	Units from market-based mechanisms under the	(number of units)		
	Convention	(kt CO ₂ eq)		
Other units				
d, e	Units from other market based mechanisms	(number of units)		
	Units from other market-based mechanisms	(kt CO ₂ eq)		
T-4-1	-	(number of units)	NA, NO	NO, NA
Total		(kt CO ₂ eq)		

Abbreviations: AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, ICERs = long-term certified emission reductions, tCERs = temporary certified emission reductions.

Note: 2011 is the latest reporting year.

Table 5 Summary of key variables and assumptions used in the projections analysis a

Key underlying assum	ptions				Hist	orical ^b					Projected	
Assumption	Unit	1990	1995	2000	2005	2010	2011	2013	2015	2020	2025	2030
Population	thousands					2,097.55	2,059.71	2,012.65	1,979.90	1,938.73	1,926.86	1,923.88
Number of households	thousands					825.60	817.00	823.30	816.82	817.01	829.45	845.95
gross domestic product	MEUR(2010)					18,367.88	19,074.04	20,841.25	21,755.60	26,779.27	33,041.48	38,852.36
Gross value added industry	MEUR(2010)					2,775.83	2,790.00	2,811.11	2,968.13	3,668.74	4,765.17	5,945.78
	EUR(2000)/EUA					2,775.05	2,790.00	2,011.11	4.08	8.17	11.43	28.51
EU ETS carbon price	EUR(2000)/EUA								4.00	0.17	11.43	20.30
Coal import prices	EUR(2000)/GJ					2.09	2.58	2.49	3.47	4.05	4.24	4.43
Crude oil import prices	EUR(2000)/GJ					10.58	12.37	11.75	12.06	12.87	14.09	15.43
Natural gas import prices	EUR(2000)/GJ					5.53	6.07	7.60	7.23	7.54	8.08	8.60
Number of passenger-kilometres	Mpkm					16,195.28	14,938.24	14,612.83	14,801.97	16,309.16	17,701.41	18,667.95
(all modes)	Wipkiii					10,193.20	14,930.24	14,012.03	14,001.57	10,309.10	17,701.41	10,007.92
Freight transport tonnes- kilometres (all modes)	Mtkm					27,769.00	33,541.00	32,348.00	32,945.28	35,788.08	38,768.08	41,139.51
Number of heating degree days (HDD)	count					4,622.25	3,939.94	4,092.00	4,092.00	4,092.00	4,092.00	4,092.00
Household size	count					2.54	2.52	2.44	2.42	2.37	2.32	2.2
(inhabitants/household) Livestock-dairy cattle	thousands					164.10	164.10	165.00	170.00	195.00	213.00	231.00
Livestock - non-dairy cattle	thousands					215.40	216.50	241.50	272.00	290.00	307.50	325.00
	thousands					76.80	79.70	241.50 84.80	96.00	119.00	142.00	165.00
Livestock -sheep												
Livestock -pig	thousands					389.70	375.00	367.50	361.00	374.00	393.00	412.00
Livestock-poultry	thousands					4,948.70	4,417.90	4,985.80	5,359.00	6,089.00	6,770.50	7,452.00
Nitrogen input from application of synthetic fertilizers	kt N					59.50	59.80	69.70	69.70	90.00	100.00	110.00
Nitrogen input from application of manure	kt N					16.02	16.30	17.42	16.53	19.42	21.87	24.31
Nitrogen in crop residues returned to soils	kt N					14.24	16.62	18.54	22.25	26.70	29.37	32.04
Area of cultivated organic soils	ha					126,450.00	126,332.00	126,028.00	127,145.64	132,322.34	133,102.34	133,702.34
Municipal solid waste (MSW)	t					1,131,000.0	1,535,000.0	1.779.000.0	1.968.928.5	2.188.770.1	2.389.704.4	2,577,054.3
generation						0	0	0	0	0	0	
Municipal solid waste (MSW)	t					605,360.00	548,700.00	533,000.00	448,000.00	322,000.00	322,000.00	322,000.00
going to landfills Share of CH4 recovery in total	%					26.20	27.40	28.20	31.20	40.92	42.91	44.60
CH4 generation from landfills												
Primary energy consumption -	PJ					5.75	6.87	5.26	4.69	12.89	21.55	31.03
coal Primary energy consumption - oil	PJ					64.58	59.50	59.27	58.60	60.27	61.78	62.97
Primary energy consumption -	PJ					61.31	54.03	50.27	54.63	54.79	43.79	38.35
natural gas Primary energy consumption -	PJ					61.38	59.34	67.46	68.78	57.93	56.89	55.80
renewables Primary energy consumption -	PJ					193.03	179.74	182.26	186.70	185.87	184.00	188.16
total												
Gross electricity production - coal	TWh					0.02	0.00	0.00	0.00	0.13	0.18	0.77
Gross electricity production - oil	TWh					0.01	0.00	0.00	0.00	0.04	0.00	0.00
Gross electricity production - natural gas	TWh					2.95	3.01	2.67	2.49	2.83	2.56	2.50
Gross electricity production - renewables	TWh					3.63	3.08	3.53	3.76	3.85	3.98	3.95
Gross electricity production - total	TWh					6.63	6.09	6.21	6.25	6.86	6.72	7.23
Total net electricity imports	TWh					0.87	1.25	1.36	2.23	1.96	2.50	2.50
Final energy consumption - industry	PJ					32.47	31.32	32.16	37.01	38.33	42.99	47.49
Final energy consumption- Transport	PJ					50.27	45.98	45.32	44.84	46.00	47.44	48.60
incl.final energy demand for road transport	PJ					42.09	36.64	35.67	36.13	36.76	37.62	38.40
Final energy consumption-	PJ					59.66	55.54	53.07	53.70	51.33	45.35	42.79
Residential Final energy consumption-	PJ					6.58	6.46	6.48	6.73	7.08	7.59	7.9
Agriculture/Forestry Final energy consumption -	PJ					25.65	23.45	25.26	24.56	24.93	24.42	24.3
Services Final energy consumption Total	PI					174.63	162.76	162.28	166.84	167.67	167.78	171.14
Final energy consumption-Total	1.7					174.03	102./0	102.28	100.84	107.07	107.78	1/1.14

LVA_BR2_v2.0

 $[^]a\,$ Parties should include key underlying assumptions as appropriate.

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

Table 6(a)

LVA_BR2_v2.0

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

			GHG emis	sions and rem	ovals ^b			GHG emission	projections
			(kt CO 2 eq)				(kt CO	₂ eq)
	Base year (1990)	1990	1995	2000	2005	2010	2013	2020	2030
Sector d,e									
Energy	16,227.79	16,227.79	7,447.20	5,177.50	5,015.46	5,202.14	4,358.51	5,446.04	6,067.97
Transport	3,030.67	3,030.67	2,099.74	2,206.18	3,095.67	3,250.65	2,826.58	2,860.19	3,014.31
Industry/industrial processes	602.66	602.66	151.77	158.61	229.46	566.74	668.97	882.06	1,116.93
Agriculture	5,558.66	5,558.66	2,255.51	1,859.64	2,015.26	2,140.57	2,310.12	2,757.24	3,277.38
Forestry/LULUCF	-8,899.50	-8,899.50	-9,505.90	-7,130.69	-4,098.21	881.52	-147.78	4,905.55	7,133.75
Waste management/waste	764.59	764.59	663.06	745.31	683.93	736.84	749.54	570.71	512.45
Other (specify)									
Gas									
CO ₂ emissions including net CO ₂ from LULUCF	9,756.92	9,756.92	-1,369.62	-1,092.84	2,708.24	8,376.65	6,080.75	12,650.01	15,827.91
CO ₂ emissions excluding net CO ₂ from LULUCF	19,539.34	19,539.34	9,059.01	7,012.42	7,733.03	8,478.49	7,276.02	8,707.91	9,681.52
CH ₄ emissions including CH ₄ from LULUCF	4,299.65	4,299.65	2,652.30	2,339.18	2,279.00	2,263.10	2,385.07	2,287.50	2,492.47
CH ₄ emissions excluding CH ₄ from LULUCF	3,995.93	3,995.93	2,337.68	1,995.39	1,998.30	1,958.76	2,036.42	1,978.96	2,151.91
N ₂ O emissions including N ₂ O from LULUCF	3,228.30	3,228.30	1,827.86	1,763.86	1,926.05	2,051.69	2,183.16	2,325.33	2,552.88
N ₂ O emissions excluding N ₂ O from LULUCF	2,649.10	2,649.10	1,219.75	1,133.07	1,280.18	1,372.67	1,484.32	1,670.42	1,906.07
HFCs	NO, NA, NE	NO, NA, NE	0.67	5.47	24.51	79.68	108.46	148.22	233.97
PFCs	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NA, NO	NA, NO
SF ₆	NO, NA, NE	NO, NA, NE	0.17	0.88	3.78	7.35	8.50	10.72	15.54
Other (specify)							_		_
Total with LULUCF ^f	17,284.87	17,284.87	3,111.38	3,016.55	6,941.58	12,778.47	10,765.94	17,421.78	21,122.77
Total without LULUCF	26,184.37	26,184.37	12,617.28	10,147.23	11,039.80	11,896.95	10,913.72	12,516.23	13,989.01

Table 6(a)

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

GHG emissions and removals b							GHG emission	on projections
$(kt CO_2 eq)$							(kt CO ₂ eq)	
Base year 1990 1995 2000 2005 2010 2013 (1990) 2005 2010						2020	2030	

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.

^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.

 $^{^{\}it f}$ Parties may choose to report total emissions with or without LULUCF, as appropriate.

Table 6(c)

LVA_BR2_v2.0

Information on updated greenhouse gas projections under a 'with additional measures' scenario^a

			GHG emi.	ssions and rem	ovals ^b			GHG emission	n projections
			(kt CO ₂ eq)				(kt CO	₂ eq)
	Base year (1990)	1990	1995	2000	2005	2010	2013	2020	2030
Sector d,e									
Energy	16,227.79	16,227.79	7,447.20	5,177.50	5,015.46	5,202.14	4,358.51	4,429.40	4,428.84
Transport	3,030.67	3,030.67	2,099.74	2,206.18	3,095.67	3,250.65	2,826.58	2,658.18	2,784.19
Industry/industrial processes	602.66	602.66	151.77	158.61	229.46	566.74	668.97	882.06	1,116.93
Agriculture	5,558.66	5,558.66	2,255.51	1,859.64	2,015.26	2,140.57	2,310.12	2,543.59	2,906.78
Forestry/LULUCF	-8,899.50	-8,899.50	-9,505.90	-7,130.69	-4,098.21	881.52	-147.78	4,905.55	7,133.75
Waste management/waste	764.59	764.59	663.06	745.31	683.93	736.84	749.54	570.75	452.04
Other (specify)									
Gas									
CO ₂ emissions including net CO ₂ from LULUCF	9,756.92	9,756.92	-1,369.62	-1,092.84	2,708.24	8,376.65	6,080.75	11,421.16	13,944.68
CO ₂ emissions excluding net CO ₂ from LULUCF	19,539.34	19,539.34	9,059.01	7,012.42	7,733.03	8,478.49	7,276.02	7,479.06	7,798.29
CH ₄ emissions including CH ₄ from LULUCF	4,299.65	4,299.65	2,652.30	2,339.18	2,279.00	2,263.10	2,385.07	2,151.48	2,193.28
CH ₄ emissions excluding CH ₄ from LULUCF	3,995.93	3,995.93	2,337.68	1,995.39	1,998.30	1,958.76	2,036.42	1,842.94	1,852.73
N ₂ O emissions including N ₂ O from LULUCF	3,228.30	3,228.30	1,827.86	1,763.86	1,926.05	2,051.69	2,183.16	2,257.96	2,435.04
N ₂ O emissions excluding N ₂ O from LULUCF	2,649.10	2,649.10	1,219.75	1,133.07	1,280.18	1,372.67	1,484.32	1,603.04	1,788.23
HFCs	NO, NA, NE	NO, NA, NE	0.67	5.47	24.51	79.68	108.46	148.22	233.97
PFCs	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NA, NO	NA, NO
SF ₆	NO, NA, NE	NO, NA, NE	0.17	0.88	3.78	7.35	8.50	10.72	15.54
Other (specify)									
Total with LULUCF ^f	17,284.87	17,284.87	3,111.38	3,016.55	6,941.58	12,778.47	10,765.94	15,989.54	18,822.51
Total without LULUCF	26,184.37	26,184.37	12,617.28	10,147.23	11,039.80	11,896.95	10,913.72	11,083.98	11,688.76

Table 6(c)

Information on updated greenhouse gas projections under a 'with additional measures' scenario^a

GHG emissions and removals ^b							GHG emission	on projections
(kt CO ₂ eq)							(kt CO ₂ eq)	
Base year 1990 1995 2000 2005 2010 2013 (1990)							2020	2030

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' or 'with additional measures' or 'with additional measures' scenarios then it should not include tables 6(b) or 6(c) in the biennial report.

^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).

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. crosscutting), as appropriate.

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

ruore ,				
Provision of 1	public financial	support: summary	information in 2013 ^a	

		Year									
		Eur	opean euro - E	UR		USD^b					
Allocation channels	Core/		Climate-specific ^d			Core/		Climate-	specific ^d		
	general c	Mitigation	Adaptation	Cross- cutting ^e	Other ^f	general ^c	Mitigation	Adaptation	Cross- cutting ^e	Other ^f	
Total contributions through multilateral channels:		10,000.00					13,281.00				
Multilateral climate change funds ^g											
Other multilateral climate change funds ^h											
Multilateral financial institutions, including regional development banks		10,000.00					13,281.00				
Specialized United Nations bodies											
Total contributions through bilateral, regional and other channels		1,888.07					2,507.55				
Total		11,888.07					15,788.55				

Abbreviation: USD = United States dollars.

Custom Footnotes

Bank (www.ecb.europa.eu) average year rate in 2013 - 1 EUR=1,3281 USD. from European Central Bank (www.ecb.europa.eu) average year rate in 2014 - 1 EUR=1,3285 USD.

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 provided
this information in relation to table 7(a) and table 7(b).
Documentation Box:

^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.

Provision of public financial support: summary information in 2014^a

	Year										
Allocation channels	European euro - EUR						USD^{b}				
	Core/		Climate-	specific ^d		Core/		Climate	specific ^d		
	general c	Mitigation	Adaptation	Cross- cutting ^e	Other ^f	general c	Mitigation	Adaptation	Cross- cutting ^e	Other ^f	
Total contributions through multilateral channels:		45,000.00			350,000.00		59,782.50			464,975.00	
Multilateral climate change funds ^g					350,000.00					464,975.00	
Other multilateral climate change funds ^h											
Multilateral financial institutions, including regional development banks		45,000.00					59,782.50				
Specialized United Nations bodies											
Total contributions through bilateral, regional and other channels					24,985.00					33,192.57	
Total		45,000.00			374,985.00		59,782.50			498,167.57	

Abbreviation: USD = United States dollars.

f Please specify.

Custom Footnotes

Bank (www.ecb.europa.eu) average year rate in 2013 - 1 EUR=1,3281 USD. European Central Bank (www.ecb.europa.eu) average year rate in 2014 - 1 EUR=1,3285 USD.

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 provided
this information in relation to table 7(a) and table 7(b).
Documentation Box:

^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.

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.

Table 7(a) LVA_BR2_v2.0

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

		Tota	l amount						
Donor funding	Core/general d		Climate-s	pecific ^e	Status b	Funding source ^f	Financial instrument ^f	Type of support f, g	Sector ^c
23.00, 9	European euro - EUR			USD	Sittus	T unding source		Type of support	
Total contributions through multilateral channels			10,000.00	13,281.00					
Multilateral climate change funds ^g									
Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund									
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds									
Multilateral financial institutions, including regional development banks			10,000.00	13,281.00					
1. World Bank									
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development			10,000.00	13,281.00	Provided	ODA	Grant	Mitigation	Energy
6. Inter-American Development Bank									
7. Other									
Specialized United Nations bodies									
1. United Nations Development Programme									
2. United Nations Environment Programme									
3. Other									

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

Custom Footnotes

Assumptions: &nb

^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.

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

		Total	amount						
Donor funding	Core/ge	Core/general d		pecific ^e	Status ^b	Funding source ^f	Financial	Type of support ^{f, g}	Sector c
, ,	European euro - EUR	USD	European euro - EUR	USD		r unang source	instrument ^f	Type of support	Section
Total contributions through multilateral channels			395,000.00	524,757.50					
Multilateral climate change funds ^g			350,000.00	464,975.00					
Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund			350,000.00	464,975.00	Provided	Other ()	Grant	Other ()	Not applicable
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds									
Multilateral financial institutions, including regional development banks			45,000.00	59,782.50					
1. World Bank									
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development			35,000.00	46,497.50	Provided	ODA	Grant	Mitigation	Energy
6. Inter-American Development Bank			10,000.00	13,285.00	Committed	ODA	Grant	Mitigation	Energy
7. Other									
Specialized United Nations bodies									
United Nations Development Programme									
2. United Nations Environment Programme									
3. Other									

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

Custom Footnotes

Assumptions: &nb

^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.

Table 7(b) LVA_BR2_v2.0

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

	Total amount Climate-specific f			Funding source ^g	Financial instrument ^g	Type of support g, h	Sector ^d		
Recipient country/ region/project/programme b			Status ^c					Additional information ^e	
region/project/programme	European euro - EUR	USD		source	instrument	зирроп			
Total contributions through bilateral, regional and other channels	1,888.07	2,507.55							
Belarus, Ukraine /	1,888.07	2,507.55	Provided	ODA	Other ()	Mitigation	Energy	The project - "Raising stakeholder awareness on building energy efficiency in Russia, Belarus, Ukraine".	

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

Custom Footnotes

Assumptions: all Domestic currency in 2013 was latvian lats. According to data from Central Bank of Latvia (www.bank.lv) average year rate in 2013 - 1 USD=0,52954972 LVL, According to data from European Central Bank (www.ecb.europa.eu) average year rate in 2013 - 1 EUR=1,3281 USD. Domestic currency in 2014 was euro. According to data from European Central Bank (www.ecb.europa.eu) average year rate in 2014 - 1 EUR=1,3285 USD.

^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.

Table 7(b) LVA_BR2_v2.0

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

	Total amount Climate-specific f			Funding source g	Financial instrument ^g	Type of support g, h			
Recipient country/ region/project/programme b			Status ^c				Sector d	Additional information ^e	
region/project/programme	European euro - EUR	USD		source	instrument	зиррот			
Total contributions through bilateral, regional and other channels	24,985.00	33,192.57							
Uzbekistan /	24,985.00	33,192.57	Provided	ODA	Other ()	Other ()	Other (Higher education)	The project - "Development cooperation project for sustainable environmental engineering education promotion between Urgench State University and Riga Technical University".	

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

Custom Footnotes

Assumptions: &nb

^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.

Table 8 LVA_BR2_v2.0

Provision of technology development and transfer support^{a,b}

Recipient country and/or region	Targeted area	Measures and activities related to technology transfer	Sector ^c	Source of the funding for technology transfer	Activities undertaken by	Status	Additional information ^d
	Mitigation			Public	Public	Implemented	

^a To be reported to the extent possible.

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

^c Parties may report sectoral disaggregation, as appropriate.

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

Provision of capacity-building support^a

Recipient country/region	Targeted area	Programme or project title	Description of programme or project b,c
Belarus, Ukraine	Mitigation	Raising stakeholder awareness on building energy efficiency in Russia, Belarus, Ukraine.	
Uzbekistan	Multiple Areas	Development cooperation project for sustainable environmental engineering education promotion between Urgench State University and Riga Technical University.	The aim of the project was to train Urgench State University students and staff in sustainable environmental engineering in order to be able to carry out such training program further by using their own staff/faculty. Thus, through raising the level of training of environmental engineering will contribute to the sustainable environmental development, including production of energy, by formation of knowledgeable professionals who will be able to implement their knowledge in practice.

^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.