

## BR CTF submission workbook

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Table 1

LVA\_BR1\_v1.0

**Emission trends: summary**<sup>(1)</sup>  
(Sheet 1 of 3)

CRF: LVA\_CRF\_\_v2.1

GREENHOUSE GAS EMISSIONS	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	-3,432.60	-5,725.36	-9,302.22	-10,247.59	-12,836.17	-12,775.30	-13,154.67	-11,823.06	-11,195.61
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	19,041.87	17,486.32	14,007.64	11,743.53	10,231.94	9,036.44	9,130.59	8,603.33	8,220.37
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	3,485.94	3,407.70	2,958.29	2,245.43	2,077.38	2,062.55	2,004.89	1,972.09	1,900.54
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	3,466.57	3,385.21	2,920.39	2,220.01	2,048.15	2,026.36	1,968.47	1,925.71	1,848.98
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	3,953.05	3,692.15	2,901.14	2,107.22	1,865.91	1,692.50	1,677.39	1,683.20	1,626.58
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	3,804.00	3,541.58	2,745.55	1,953.73	1,710.92	1,535.40	1,519.69	1,524.13	1,466.52
HFCs	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.64	0.84	1.93	2.86
PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
SF <sub>6</sub>	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	0.25	0.29	0.51	0.71
<b>Total (including LULUCF)</b>	4,006.39	1,374.49	-3,442.79	-5,894.94	-8,892.88	-9,019.36	-9,471.28	-8,165.33	-7,664.92
<b>Total (excluding LULUCF)</b>	26,312.45	24,413.11	19,673.59	15,917.27	13,991.01	12,599.09	12,619.87	12,055.61	11,539.44

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
1. Energy	19,136.30	17,664.32	14,400.15	12,297.42	10,713.17	9,514.63	9,593.72	9,031.25	8,615.22
2. Industrial Processes	598.87	536.07	256.64	83.67	146.72	160.21	176.27	183.12	184.86
3. Solvent and Other Product Use	50.70	46.49	44.20	41.35	40.51	41.49	43.65	44.48	43.88
4. Agriculture	5,931.27	5,561.65	4,369.49	2,906.43	2,506.98	2,307.62	2,238.59	2,227.74	2,110.86
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	-22,306.06	-23,038.62	-23,116.38	-21,812.20	-22,883.89	-21,618.46	-22,091.15	-20,220.94	-19,204.37
6. Waste	595.30	604.58	603.11	588.41	583.62	575.14	567.64	569.01	584.62
7. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total (including LULUCF)</b>	4,006.39	1,374.49	-3,442.79	-5,894.94	-8,892.88	-9,019.36	-9,471.28	-8,165.33	-7,664.92

**Note:** All footnotes for this table are given on sheet 3.<sup>1</sup> 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

LVA\_BR1\_v1.0

**Emission trends: summary** <sup>(1)</sup>  
**(Sheet 2 of 3)**

CRF: LVA\_CRF\_ v2.1

GREENHOUSE GAS EMISSIONS	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	-11,940.56	-12,471.76	-11,647.56	-10,287.59	-10,676.50	-10,148.69	-10,398.74	-11,746.78	-10,160.09	-11,675.23
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	7,627.03	6,992.61	7,412.10	7,409.32	7,633.83	7,799.15	7,789.85	8,273.31	8,629.23	8,175.66
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	1,784.81	1,764.89	1,827.86	1,822.42	1,744.88	1,736.70	1,758.75	1,732.12	1,771.28	1,753.84
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	1,726.74	1,706.04	1,794.96	1,782.45	1,707.17	1,702.52	1,723.91	1,693.86	1,739.94	1,725.65
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	1,542.91	1,561.97	1,678.15	1,646.61	1,726.01	1,703.29	1,768.98	1,773.63	1,824.85	1,808.37
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	1,381.29	1,399.83	1,518.40	1,484.96	1,564.53	1,542.04	1,607.48	1,609.75	1,662.76	1,646.26
HFCs	3.28	5.12	7.59	9.87	15.72	18.10	28.39	62.64	98.66	72.96
PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
SF <sub>6</sub>	0.98	1.28	1.98	3.38	4.41	5.37	7.53	7.12	8.60	10.08
<b>Total (including LULUCF)</b>	<b>-8,608.59</b>	<b>-9,138.51</b>	<b>-8,131.98</b>	<b>-6,805.30</b>	<b>-7,185.47</b>	<b>-6,685.23</b>	<b>-6,835.09</b>	<b>-8,171.26</b>	<b>-6,456.70</b>	<b>-8,029.98</b>
<b>Total (excluding LULUCF)</b>	<b>10,739.32</b>	<b>10,104.88</b>	<b>10,735.03</b>	<b>10,689.98</b>	<b>10,925.67</b>	<b>11,067.17</b>	<b>11,157.16</b>	<b>11,646.68</b>	<b>12,139.19</b>	<b>11,630.61</b>

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq	kt CO <sub>2</sub> eq
1. Energy	7,961.29	7,341.10	7,761.67	7,755.94	7,953.73	7,980.08	8,079.26	8,491.69	8,816.78	8,353.54
2. Industrial Processes	222.76	179.40	207.29	223.70	247.28	389.84	286.20	348.05	404.10	371.84
3. Solvent and Other Product Use	45.03	44.81	50.89	36.49	29.40	35.88	35.69	55.21	63.25	43.62
4. Agriculture	1,926.19	1,956.33	2,101.72	2,065.29	2,119.15	2,081.67	2,174.00	2,168.32	2,260.04	2,224.03
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	-19,347.90	-19,243.39	-18,867.01	-17,495.28	-18,111.14	-17,752.40	-17,992.25	-19,817.94	-18,595.88	-19,660.60
6. Waste	584.05	583.24	613.45	608.55	576.11	579.69	582.00	583.41	595.01	637.58
7. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total (including LULUCF)</b>	<b>-8,608.59</b>	<b>-9,138.51</b>	<b>-8,131.98</b>	<b>-6,805.30</b>	<b>-7,185.47</b>	<b>-6,685.23</b>	<b>-6,835.09</b>	<b>-8,171.26</b>	<b>-6,456.70</b>	<b>-8,029.98</b>

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

**Emission trends: summary** <sup>(1)</sup>  
**(Sheet 3 of 3)**

CRF: LVA\_CRF\_\_ v2.1

<i>GREENHOUSE GAS EMISSIONS</i>	2009	2010	2011	Change from base to latest reported year
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	(%)
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	-12,628.41	-8,084.79	-9,261.49	169.81
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	7,433.66	8,529.00	8,088.05	-57.52
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	1,773.07	1,780.14	1,641.07	-52.92
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	1,738.73	1,739.71	1,631.52	-52.94
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	1,843.29	1,905.49	1,891.08	-52.16
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	1,680.37	1,742.91	1,730.28	-54.51
HFCs	74.48	72.32	82.97	100.00
PFCs	NA, NO	NA, NO	NA, NO	0.00
SF <sub>6</sub>	13.53	13.13	12.45	100.00
<b>Total (including LULUCF)</b>	<b>-8,924.04</b>	<b>-4,313.72</b>	<b>-5,633.92</b>	<b>-240.62</b>
<b>Total (excluding LULUCF)</b>	<b>10,940.78</b>	<b>12,097.07</b>	<b>11,545.28</b>	<b>-56.12</b>

<i>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</i>	2009	2010	2011	Change from base to latest reported year
	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	<i>kt CO<sub>2</sub> eq</i>	(%)
1. Energy	7,691.09	8,487.08	7,857.03	-58.94
2. Industrial Processes	339.63	605.33	727.69	21.51
3. Solvent and Other Product Use	26.55	45.25	41.31	-18.52
4. Agriculture	2,255.96	2,326.80	2,320.62	-60.87
5. Land Use, Land-Use Change and Forestry <sup>b</sup>	-19,864.82	-16,410.78	-17,179.20	-22.98
6. Waste	627.56	632.60	598.63	0.56
7. Other	NO	NO	NO	0.00
<b>Total (including LULUCF)</b>	<b>-8,924.04</b>	<b>-4,313.72</b>	<b>-5,633.92</b>	<b>-240.62</b>

*Notes :*

(1) Further detailed information could be found in the common reporting format tables of the Party's greenhouse gas inventory, namely "Emission trends (CO<sub>2</sub>)", "Emission trends (CH<sub>4</sub>)", "Emission trends (N<sub>2</sub>O)" and "Emission trends (HFCs, PFCs and SF<sub>6</sub>)", which is included in an annex to this biennial report.

(2) 2011 is the latest reported inventory year.

(3) 1 kt CO<sub>2</sub> eq equals 1 Gg CO<sub>2</sub> eq.

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

<sup>a</sup> 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.

<sup>b</sup> Includes net CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O from LULUCF.

*Custom Footnotes*

**Emission trends (CO<sub>2</sub>)**  
(Sheet 1 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	18,392.36	16,903.80	13,706.83	11,618.54	10,044.75	8,840.19	8,916.94	8,383.57	7,999.14
A. Fuel Combustion (Sectoral Approach)	18,392.34	16,903.78	13,706.81	11,618.52	10,044.73	8,840.17	8,916.92	8,383.55	7,999.12
1. Energy Industries	6,266.63	5,751.17	4,925.94	3,973.07	3,731.92	3,417.88	3,549.52	3,305.68	3,349.94
2. Manufacturing Industries and Construction	3,724.11	2,804.05	2,368.39	2,098.92	1,899.68	1,863.11	1,826.91	1,780.98	1,559.86
3. Transport	2,897.89	2,714.09	2,419.58	2,229.80	2,115.01	2,013.78	1,980.38	1,972.17	1,947.93
4. Other Sectors	5,503.71	5,634.46	3,992.90	3,316.73	2,298.12	1,539.28	1,556.85	1,312.38	1,138.14
5. Other	NO	NO	NO	NO	NO	6.12	3.25	12.34	3.25
B. Fugitive Emissions from Fuels	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1. Solid Fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>2. Industrial Processes</b>	598.81	536.03	256.62	83.64	146.69	159.29	175.11	180.64	181.24
A. Mineral Products	585.98	527.32	250.88	76.63	140.14	154.86	171.63	172.64	172.74
B. Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal Production	12.83	8.71	5.73	7.01	6.55	4.43	3.49	8.00	8.50
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	50.70	46.49	44.20	41.35	40.51	36.96	38.53	39.12	40.00
<b>4. Agriculture</b>									
A. Enteric Fermentation									
B. Manure Management									
C. Rice Cultivation									
D. Agricultural Soils									
E. Prescribed Burning of Savannas									
F. Field Burning of Agricultural Residues									
G. Other									
<b>5. Land Use, Land-Use Change and Forestry</b>	-22,474.48	-23,211.68	-23,309.87	-21,991.12	-23,068.11	-21,811.74	-22,285.26	-20,426.39	-19,415.98
A. Forest Land	-23,068.99	-23,855.16	-24,194.43	-23,316.65	-23,910.73	-22,313.06	-22,438.50	-19,709.50	-18,279.36
B. Cropland	602.97	618.47	633.97	649.42	664.92	680.42	506.55	507.23	510.81
C. Grassland	40.15	41.34	42.64	43.86	45.17	47.08	49.35	49.22	51.57
D. Wetlands	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80
E. Settlements	104.59	133.88	163.16	192.44	221.73	251.01	255.53	278.86	302.19
F. Other Land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
G. Other	-173.00	-170.00	25.00	420.00	-109.00	-497.00	-678.00	-1,572.00	-2,021.00
<b>6. Waste</b>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
A. Solid Waste Disposal on Land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
B. Waste-water Handling									
C. Waste Incineration	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total CO2 emissions including net CO2 from LULUCF</b>	-3,432.60	-5,725.36	-9,302.22	-10,247.59	-12,836.17	-12,775.30	-13,154.67	-11,823.06	-11,195.61
<b>Total CO2 emissions excluding net CO2 from LULUCF</b>	19,041.87	17,486.32	14,007.64	11,743.53	10,231.94	9,036.44	9,130.59	8,603.33	8,220.37
<b>Memo Items:</b>									
<b>International Bunkers</b>	1,721.08	747.50	653.73	756.98	963.50	554.58	408.31	324.27	137.42
Aviation	221.15	299.01	84.10	84.10	77.87	77.87	99.67	99.67	90.33
Marine	1,499.94	448.49	569.64	672.88	885.63	476.72	308.64	224.60	47.10
<b>Multilateral Operations</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>CO2 Emissions from Biomass</b>	2,964.03	3,476.19	3,466.38	3,862.35	4,002.69	4,538.71	4,744.63	4,755.57	4,693.52

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

Emission trends (CO<sub>2</sub>)

(Sheet 2 of 3)

CRF: LVA\_CRF\_\_v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	7,367.09	6,776.86	7,169.62	7,168.08	7,382.93	7,402.71	7,506.59	7,950.19	8,272.03	7,847.13
A. Fuel Combustion (Sectoral Approach)	7,367.07	6,776.84	7,169.60	7,168.06	7,382.91	7,402.69	7,506.57	7,950.17	8,272.01	7,847.11
1. Energy Industries	2,924.94	2,475.88	2,418.22	2,313.69	2,246.11	2,057.56	2,047.55	2,073.32	1,943.80	1,916.58
2. Manufacturing Industries and Construction	1,411.70	1,151.91	1,062.62	1,110.09	1,140.00	1,150.61	1,165.21	1,213.16	1,225.26	1,111.76
3. Transport	1,901.88	2,111.87	2,502.24	2,580.90	2,725.06	2,864.10	2,990.42	3,298.23	3,735.21	3,528.57
4. Other Sectors	1,119.22	1,037.04	1,186.35	1,156.63	1,265.41	1,318.95	1,295.79	1,356.59	1,364.90	1,286.81
5. Other	9.33	0.14	0.17	6.76	6.33	11.47	7.60	8.87	2.83	3.39
B. Fugitive Emissions from Fuels	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
1. Solid Fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and Natural Gas	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<b>2. Industrial Processes</b>	218.45	172.95	197.67	210.40	227.09	366.32	250.23	278.23	296.79	288.75
A. Mineral Products	210.74	164.52	189.63	202.80	214.92	353.40	237.87	265.66	282.22	280.01
B. Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal Production	7.71	8.43	8.04	7.60	12.16	12.92	12.36	12.57	14.57	8.73
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	40.76	41.62	42.46	30.54	23.45	29.68	32.59	43.38	59.22	39.28
<b>4. Agriculture</b>										
A. Enteric Fermentation										
B. Manure Management										
C. Rice Cultivation										
D. Agricultural Soils										
E. Prescribed Burning of Savannas										
F. Field Burning of Agricultural Residues										
G. Other										
<b>5. Land Use, Land-Use Change and Forestry</b>	-19,567.59	-19,464.37	-19,059.66	-17,696.91	-18,310.33	-17,947.83	-18,188.59	-20,020.09	-18,789.31	-19,850.89
A. Forest Land	-18,103.77	-17,902.36	-17,704.70	-16,348.23	-17,049.80	-16,777.75	-17,055.48	-18,927.31	-18,717.60	-20,119.73
B. Cropland	513.74	518.90	498.32	514.21	525.13	504.15	506.32	507.92	513.03	512.69
C. Grassland	55.12	55.44	60.91	74.12	80.17	67.43	60.06	103.62	65.40	61.12
D. Wetlands	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80	19.80
E. Settlements	325.52	348.84	469.02	513.19	557.36	601.54	645.71	689.88	734.06	778.23
F. Other Land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
G. Other	-2,378.00	-2,505.00	-2,403.00	-2,470.00	-2,443.00	-2,363.00	-2,365.00	-2,414.00	-1,404.00	-1,103.00
<b>6. Waste</b>	0.74	1.18	2.34	0.30	0.37	0.44	0.44	1.51	1.18	0.50
A. Solid Waste Disposal on Land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
B. Waste-water Handling										
C. Waste Incineration	0.74	1.18	2.34	0.30	0.37	0.44	0.44	1.51	1.18	0.50
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total CO2 emissions including net CO2 from LULUCF</b>	-11,940.56	-12,471.76	-11,647.56	-10,287.59	-10,676.50	-10,148.69	-10,398.74	-11,746.78	-10,160.09	-11,675.23
<b>Total CO2 emissions excluding net CO2 from LULUCF</b>	7,627.03	6,992.61	7,412.10	7,409.32	7,633.83	7,799.15	7,789.85	8,273.31	8,629.23	8,175.66
<b>Memo Items:</b>										
<b>International Bunkers</b>	121.77	106.14	697.07	733.88	714.90	788.19	1,003.69	825.81	810.74	950.79
Aviation	90.33	80.98	80.98	84.10	121.50	148.08	179.57	201.59	245.82	296.15
Marine	31.44	25.15	616.09	649.79	593.40	640.11	824.12	624.22	564.93	654.64
<b>Multilateral Operations</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>CO2 Emissions from Biomass</b>	4,608.23	4,280.66	4,800.70	4,775.71	5,077.49	5,354.66	5,361.72	5,395.88	5,280.87	5,002.76

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

**Emission trends (CO<sub>2</sub>)**  
(Sheet 3 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	7,159.24	7,968.23	7,419.12	-59.66
A. Fuel Combustion (Sectoral Approach)	7,159.22	7,968.21	7,419.10	-59.66
1. Energy Industries	1,865.12	2,247.73	2,071.74	-66.94
2. Manufacturing Industries and Construction	883.50	1,069.24	876.11	-76.47
3. Transport	3,130.03	3,205.12	3,084.85	6.45
4. Other Sectors	1,275.25	1,438.26	1,379.21	-74.94
5. Other	5.32	7.85	7.20	100.00
B. Fugitive Emissions from Fuels	0.02	0.02	0.02	11.12
1. Solid Fuels	NO	NO	NO	0.00
2. Oil and Natural Gas	0.02	0.02	0.02	11.12
<b>2. Industrial Processes</b>	251.57	519.83	632.25	5.58
A. Mineral Products	242.00	508.55	631.77	7.81
B. Chemical Industry	NO	NO	NO	0.00
C. Metal Production	9.56	11.28	0.48	-96.29
D. Other Production	NA	NA	NA	0.00
E. Production of Halocarbons and SF6				
F. Consumption of Halocarbons and SF6				
G. Other	NO	NO	NO	0.00
<b>3. Solvent and Other Product Use</b>	22.52	40.60	36.35	-28.30
<b>4. Agriculture</b>				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				
<b>5. Land Use, Land-Use Change and Forestry</b>	-20,062.07	-16,613.79	-17,349.54	-22.80
A. Forest Land	-18,899.42	-15,789.12	-16,249.62	-29.56
B. Cropland	448.55	392.40	368.63	-38.86
C. Grassland	67.90	64.27	62.62	55.97
D. Wetlands	19.80	19.80	19.80	0.00
E. Settlements	825.10	855.87	883.03	744.25
F. Other Land	NA, NO	NA, NO	NA, NO	0.00
G. Other	-2,524.00	-2,157.00	-2,434.00	1,306.94
<b>6. Waste</b>	0.34	0.34	0.33	100.00
A. Solid Waste Disposal on Land	NA, NO	NA, NO	NA, NO	0.00
B. Waste-water Handling				
C. Waste Incineration	0.34	0.34	0.33	100.00
D. Other	NA	NA	NA	0.00
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	0.00
<b>Total CO<sub>2</sub> emissions including net CO<sub>2</sub> from LULUCF</b>	-12,628.41	-8,084.79	-9,261.49	169.81
<b>Total CO<sub>2</sub> emissions excluding net CO<sub>2</sub> from LULUCF</b>	7,433.66	8,529.00	8,088.05	-57.52
<b>Memo Items:</b>				
<b>International Bunkers</b>	1,181.67	1,156.28	1,038.54	-39.66
Aviation	311.90	357.76	359.15	62.40
Marine	869.77	798.52	679.39	-54.71
<b>Multilateral Operations</b>	NO	NO	NO	0.00
<b>CO<sub>2</sub> Emissions from Biomass</b>	5,723.20	5,663.29	5,244.40	76.94

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

<sup>a</sup> 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.

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

Custom Footnotes

Table 1(b)

LVA\_BR1\_v1.0

**Emission trends (CH<sub>4</sub>)**

(Sheet 1 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	27.91	28.80	26.42	26.56	26.35	26.52	26.51	25.13	23.87
A. Fuel Combustion (Sectoral Approach)	12.52	13.89	12.61	13.23	13.08	13.53	13.90	13.20	12.31
1. Energy Industries	0.27	0.26	0.25	0.24	0.24	0.23	0.25	0.29	0.28
2. Manufacturing Industries and Construction	0.26	0.19	0.17	0.18	0.17	0.17	0.18	0.17	0.18
3. Transport	0.78	0.72	0.69	0.67	0.63	0.58	0.55	0.52	0.49
4. Other Sectors	11.20	12.71	11.50	12.15	12.04	12.56	12.92	12.22	11.36
5. Other	NO	NO	NO	NO	NO	0.00	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	15.39	14.91	13.81	13.33	13.27	12.99	12.61	11.93	11.55
1. Solid Fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and Natural Gas	15.39	14.91	13.81	13.33	13.27	12.99	12.61	11.93	11.55
<b>2. Industrial Processes</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral Products	NA, NE, NO	NA, NE, NO	NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
B. Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Other Production									
E. Production of Halocarbons and SF6									
F. Consumption of Halocarbons and SF6									
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>									
<b>4. Agriculture</b>	111.96	106.73	87.01	54.13	46.33	45.47	43.05	42.29	39.12
A. Enteric Fermentation	102.29	97.81	80.50	50.18	42.57	41.51	39.55	38.94	35.94
B. Manure Management	9.67	8.93	6.50	3.95	3.76	3.96	3.49	3.35	3.19
C. Rice Cultivation	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Agricultural Soils	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	0.92	1.07	1.80	1.21	1.39	1.72	1.73	2.21	2.46
A. Forest Land	0.92	1.07	1.80	1.21	1.39	1.72	1.73	2.21	2.45
B. Cropland	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Grassland	IE, NO	IE, NO	IE, NO	0.00	0.00	0.00	0.00	0.00	0.00
D. Wetlands	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
E. Settlements	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
F. Other Land	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
G. Other	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
<b>6. Waste</b>	25.21	25.66	25.64	25.02	24.85	24.50	24.18	24.28	25.05
A. Solid Waste Disposal on Land	15.71	16.29	16.76	17.13	17.40	17.57	17.78	18.05	18.37
B. Waste-water Handling	9.49	9.37	8.87	7.89	7.45	6.93	6.40	6.24	6.69
C. Waste Incineration	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total CH4 emissions including CH4 from LULUCF</b>	166.00	162.27	140.87	106.93	98.92	98.22	95.47	93.91	90.50
<b>Total CH4 emissions excluding CH4 from LULUCF</b>	165.07	161.20	139.07	105.71	97.53	96.49	93.74	91.70	88.05
<b>Memo Items:</b>									
<b>International Bunkers</b>	0.10	0.03	0.04	0.04	0.06	0.03	0.02	0.01	0.00
Aviation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Marine	0.09	0.03	0.04	0.04	0.06	0.03	0.02	0.01	0.00
<b>Multilateral Operations</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>CO2 Emissions from Biomass</b>									

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



**Emission trends (CH<sub>4</sub>)**

(Sheet 2 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	23.16	21.85	22.77	22.48	21.25	21.29	21.03	19.68	19.68	18.17
A. Fuel Combustion (Sectoral Approach)	12.02	11.34	12.51	12.22	12.76	13.11	13.09	12.75	12.70	11.74
1. Energy Industries	0.23	0.22	0.21	0.22	0.23	0.21	0.18	0.20	0.19	0.19
2. Manufacturing Industries and Construction	0.17	0.16	0.20	0.19	0.19	0.23	0.26	0.29	0.27	0.28
3. Transport	0.47	0.49	0.54	0.50	0.48	0.45	0.39	0.37	0.34	0.28
4. Other Sectors	11.15	10.47	11.55	11.31	11.87	12.22	12.25	11.89	11.89	10.99
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	11.13	10.51	10.26	10.26	8.49	8.19	7.94	6.93	6.98	6.43
1. Solid Fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and Natural Gas	11.13	10.51	10.26	10.26	8.49	8.19	7.94	6.93	6.98	6.43
<b>2. Industrial Processes</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Mineral Products	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
B. Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Other Production										
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>										
<b>4. Agriculture</b>	34.05	34.38	36.34	36.13	35.31	34.89	36.03	35.94	37.55	36.29
A. Enteric Fermentation	31.10	30.89	32.51	32.27	31.46	31.07	32.10	31.75	33.21	32.04
B. Manure Management	2.95	3.50	3.83	3.86	3.84	3.82	3.93	4.19	4.34	4.25
C. Rice Cultivation	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Agricultural Soils	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	2.77	2.80	1.57	1.90	1.80	1.63	1.66	1.82	1.49	1.34
A. Forest Land	2.76	2.80	1.56	1.88	1.76	1.61	1.65	1.76	1.48	1.34
B. Cropland	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Grassland	0.01	0.01	0.01	0.03	0.03	0.02	0.01	0.06	0.01	0.00
D. Wetlands	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
E. Settlements	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
F. Other Land	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
G. Other	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
<b>6. Waste</b>	25.01	25.00	26.36	26.26	24.73	24.88	25.02	25.04	25.63	27.71
A. Solid Waste Disposal on Land	18.74	19.15	19.62	19.51	17.88	17.09	17.63	18.38	19.36	20.16
B. Waste-water Handling	6.28	5.85	6.75	6.75	6.84	7.76	7.37	6.61	6.23	7.51
C. Waste Incineration	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
D. Other	NE	NE	NE	NE	0.01	0.03	0.03	0.05	0.04	0.04
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total CH4 emissions including CH4 from LULUCF</b>	84.99	84.04	87.04	86.78	83.09	82.70	83.75	82.48	84.35	83.52
<b>Total CH4 emissions excluding CH4 from LULUCF</b>	82.23	81.24	85.47	84.88	81.29	81.07	82.09	80.66	82.85	82.17
<b>Memo Items:</b>										
<b>International Bunkers</b>	0.00	0.00	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04
Aviation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Marine	0.00	0.00	0.04	0.04	0.04	0.04	0.05	0.04	0.03	0.04
<b>Multilateral Operations</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>CO2 Emissions from Biomass</b>										

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

**Emission trends (CH<sub>4</sub>)**

(Sheet 3 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	19.48	18.88	15.10	-45.91
A. Fuel Combustion (Sectoral Approach)	12.85	12.17	10.55	-15.70
1. Energy Industries	0.19	0.21	0.20	-28.58
2. Manufacturing Industries and Construction	0.33	0.40	0.46	74.77
3. Transport	0.24	0.23	0.21	-73.28
4. Other Sectors	12.09	11.33	9.69	-13.48
5. Other	0.00	0.00	0.00	100.00
B. Fugitive Emissions from Fuels	6.62	6.71	4.54	-70.48
1. Solid Fuels	NO	NO	NO	0.00
2. Oil and Natural Gas	6.62	6.71	4.54	-70.48
<b>2. Industrial Processes</b>	0.00	0.00	0.00	-69.53
A. Mineral Products	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.00
B. Chemical Industry	NO	NO	NO	0.00
C. Metal Production	0.00	0.00	0.00	-69.53
D. Other Production				
E. Production of Halocarbons and SF <sub>6</sub>				
F. Consumption of Halocarbons and SF <sub>6</sub>				
G. Other	NO	NO	NO	0.00
<b>3. Solvent and Other Product Use</b>				
<b>4. Agriculture</b>	36.10	36.49	36.57	-67.33
A. Enteric Fermentation	31.79	32.01	32.10	-68.62
B. Manure Management	4.30	4.48	4.47	-53.76
C. Rice Cultivation	NO	NO	NO	0.00
D. Agricultural Soils	NA	NA	NA	0.00
E. Prescribed Burning of Savannas	NA	NA	NA	0.00
F. Field Burning of Agricultural Residues	NO	NO	NO	0.00
G. Other	NO	NO	NO	0.00
<b>5. Land Use, Land-Use Change and Forestry</b>	1.63	1.93	0.45	-50.73
A. Forest Land	1.62	1.92	0.45	-51.16
B. Cropland	NO	NO	NO	0.00
C. Grassland	0.01	0.01	0.00	100.00
D. Wetlands	IE, NE, NO	IE, NE, NO	IE, NE, NO	0.00
E. Settlements	NE, NO	NE, NO	NE, NO	0.00
F. Other Land	NA, NE	NA, NE	NA, NE	0.00
G. Other	NA, NE	NA, NE	NA, NE	0.00
<b>6. Waste</b>	27.22	27.47	26.02	3.24
A. Solid Waste Disposal on Land	20.35	20.73	20.91	33.04
B. Waste-water Handling	6.81	6.67	5.02	-47.10
C. Waste Incineration	NA, NO	NA, NO	NA, NO	0.00
D. Other	0.06	0.07	0.09	100.00
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	0.00
<b>Total CH<sub>4</sub> emissions including CH<sub>4</sub> from LULUCF</b>	84.43	84.77	78.15	-52.92
<b>Total CH<sub>4</sub> emissions excluding CH<sub>4</sub> from LULUCF</b>	82.80	82.84	77.69	-52.94
<b>Memo Items:</b>				
<b>International Bunkers</b>	0.06	0.05	0.05	-52.41
Aviation	0.00	0.00	0.00	136.50
Marine	0.05	0.05	0.04	-55.50
<b>Multilateral Operations</b>	NO	NO	NO	0.00
<b>CO<sub>2</sub> Emissions from Biomass</b>				

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

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

Custom Footnotes

**Emission trends (N<sub>2</sub>O)**  
(Sheet 1 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	0.51	0.50	0.45	0.39	0.37	0.38	0.39	0.39	0.37
A. Fuel Combustion (Sectoral Approach)	0.51	0.50	0.45	0.39	0.37	0.38	0.39	0.39	0.37
1. Energy Industries	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
2. Manufacturing Industries and Construction	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
3. Transport	0.27	0.26	0.22	0.16	0.15	0.15	0.15	0.16	0.15
4. Other Sectors	0.16	0.18	0.17	0.17	0.16	0.17	0.18	0.17	0.16
5. Other	NO	NO	NO	NO	NO	0.00	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
1. Solid Fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and Natural Gas	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>2. Industrial Processes</b>	NA, NE, NO	NA, NE, NO	NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
A. Mineral Products	NA, NE, NO	NA, NE, NO	NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
B. Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal Production	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Other Production									
E. Production of Halocarbons and SF <sub>6</sub>									
F. Consumption of Halocarbons and SF <sub>6</sub>									
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	0.01	0.02	0.02	0.01
<b>4. Agriculture</b>	11.55	10.71	8.20	5.71	4.95	4.36	4.31	4.32	4.16
A. Enteric Fermentation									
B. Manure Management	1.84	1.76	1.42	0.88	0.75	0.75	0.69	0.65	0.60
C. Rice Cultivation									
D. Agricultural Soils	9.71	8.95	6.79	4.83	4.19	3.62	3.61	3.67	3.56
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	0.48	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.52
A. Forest Land	0.47	0.47	0.48	0.47	0.47	0.48	0.48	0.48	0.48
B. Cropland	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03
C. Grassland	IE, NO	IE, NO	IE, NO	0.00	0.00	0.00	0.00	0.00	0.00
D. Wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Settlements	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
F. Other Land	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
G. Other	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
<b>6. Waste</b>	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19
A. Solid Waste Disposal on Land									
B. Waste-water Handling	0.21	0.21	0.21	0.20	0.20	0.20	0.19	0.19	0.19
C. Waste Incineration	NO	NO	NO	NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
D. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total N<sub>2</sub>O emissions including N<sub>2</sub>O from LULUCF</b>	12.75	11.91	9.36	6.80	6.02	5.46	5.41	5.43	5.25
<b>Total N<sub>2</sub>O emissions excluding N<sub>2</sub>O from LULUCF</b>	12.27	11.42	8.86	6.30	5.52	4.95	4.90	4.92	4.73
<b>Memo Items:</b>									
<b>International Bunkers</b>	0.19	0.04	0.04	0.06	0.11	0.05	0.04	0.03	0.02
Aviation	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Marine	0.18	0.03	0.03	0.06	0.11	0.04	0.03	0.03	0.02
<b>Multilateral Operations</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>CO<sub>2</sub> Emissions from Biomass</b>									

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

**Emission trends (N<sub>2</sub>O)**

(Sheet 2 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>1. Energy</b>	0.35	0.34	0.37	0.37	0.40	0.42	0.42	0.41	0.42	0.40
A. Fuel Combustion (Sectoral Approach)	0.35	0.34	0.37	0.37	0.40	0.42	0.42	0.41	0.42	0.40
1. Energy Industries	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02
2. 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	0.14	0.15	0.16	0.17	0.19	0.20	0.20	0.19	0.20	0.19
4. Other Sectors	0.15	0.14	0.16	0.15	0.16	0.17	0.17	0.16	0.17	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	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
1. Solid Fuels	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Oil and Natural Gas	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
<b>2. Industrial Processes</b>	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
A. Mineral Products	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO
B. Chemical Industry	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C. Metal Production	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Other Production										
E. Production of Halocarbons and SF6										
F. Consumption of Halocarbons and SF6										
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	0.01	0.01	0.03	0.02	0.02	0.02	0.01	0.04	0.01	0.01
<b>4. Agriculture</b>	3.91	3.98	4.32	4.21	4.44	4.35	4.57	4.56	4.75	4.72
A. Enteric Fermentation										
B. Manure Management	0.53	0.52	0.54	0.54	0.51	0.49	0.50	0.47	0.48	0.45
C. Rice Cultivation										
D. Agricultural Soils	3.38	3.46	3.78	3.68	3.93	3.86	4.08	4.09	4.27	4.26
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>5. Land Use, Land-Use Change and Forestry</b>	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.53	0.52	0.52
A. Forest Land	0.48	0.48	0.47	0.48	0.47	0.47	0.47	0.48	0.47	0.47
B. Cropland	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05
C. Grassland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Settlements	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
F. Other Land	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
G. Other	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
<b>6. Waste</b>	0.19	0.18	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18
A. Solid Waste Disposal on Land										
B. Waste-water Handling	0.19	0.18	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17
C. Waste Incineration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Other	NE	NE	NE	NE	0.00	0.00	0.00	0.00	0.00	0.00
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Total N2O emissions including N2O from LULUCF</b>	4.98	5.04	5.41	5.31	5.57	5.49	5.71	5.72	5.89	5.83
<b>Total N2O emissions excluding N2O from LULUCF</b>	4.46	4.52	4.90	4.79	5.05	4.97	5.19	5.19	5.36	5.31
<b>Memo Items:</b>										
<b>International Bunkers</b>	0.02	0.01	0.14	0.12	0.11	0.11	0.13	0.10	0.09	0.08
Aviation	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Marine	0.01	0.01	0.14	0.12	0.10	0.11	0.13	0.09	0.09	0.07
<b>Multilateral Operations</b>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>CO2 Emissions from Biomass</b>										

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

**Emission trends (N<sub>2</sub>O)**

(Sheet 3 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>1. Energy</b>	0.40	0.39	0.39	-23.42
A. Fuel Combustion (Sectoral Approach)	0.40	0.39	0.39	-23.42
1. Energy Industries	0.03	0.03	0.03	-44.27
2. Manufacturing Industries and Construction	0.04	0.05	0.06	122.87
3. Transport	0.16	0.16	0.17	-38.30
4. Other Sectors	0.17	0.16	0.14	-15.93
5. Other	0.00	0.00	0.00	100.00
B. Fugitive Emissions from Fuels	NA, NO	NA, NO	NA, NO	0.00
1. Solid Fuels	NO	NO	NO	0.00
2. Oil and Natural Gas	NA, NO	NA, NO	NA, NO	0.00
<b>2. Industrial Processes</b>	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.00
A. Mineral Products	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.00
B. Chemical Industry	NO	NO	NO	0.00
C. Metal Production	NO	NO	NO	0.00
D. Other Production				
E. Production of Halocarbons and SF <sub>6</sub>				
F. Consumption of Halocarbons and SF <sub>6</sub>				
G. Other	NO	NO	NO	0.00
<b>3. Solvent and Other Product Use</b>	0.01	0.02	0.02	100.00
<b>4. Agriculture</b>	4.83	5.03	5.01	-56.63
A. Enteric Fermentation				
B. Manure Management	0.45	0.42	0.39	-78.56
C. Rice Cultivation				
D. Agricultural Soils	4.38	4.62	4.61	-52.48
E. Prescribed Burning of Savannas	NA	NA	NA	0.00
F. Field Burning of Agricultural Residues	NO	NO	NO	0.00
G. Other	NO	NO	NO	0.00
<b>5. Land Use, Land-Use Change and Forestry</b>	0.53	0.52	0.52	7.88
A. Forest Land	0.47	0.47	0.47	-1.39
B. Cropland	0.05	0.05	0.04	833.61
C. Grassland	0.00	0.00	0.01	100.00
D. Wetlands	0.00	0.00	0.00	0.00
E. Settlements	NE, NO	NE, NO	NE, NO	0.00
F. Other Land	NA, NE	NA, NE	NA, NE	0.00
G. Other	NA, NE	NA, NE	NA, NE	0.00
<b>6. Waste</b>	0.18	0.18	0.17	-21.41
A. Solid Waste Disposal on Land				
B. Waste-water Handling	0.17	0.17	0.16	-24.77
C. Waste Incineration	0.00	0.00	0.00	100.00
D. Other	0.00	0.01	0.01	100.00
<b>7. Other (as specified in the summary table in CRF)</b>	NO	NO	NO	0.00
<b>Total N<sub>2</sub>O emissions including N<sub>2</sub>O from LULUCF</b>	5.95	6.15	6.10	-52.16
<b>Total N<sub>2</sub>O emissions excluding N<sub>2</sub>O from LULUCF</b>	5.42	5.62	5.58	-54.51
<b>Memo Items:</b>				
<b>International Bunkers</b>	0.11	0.12	0.12	-36.15
Aviation	0.01	0.01	0.01	96.19
Marine	0.10	0.10	0.11	-40.66
<b>Multilateral Operations</b>	NO	NO	NO	0.00
<b>CO<sub>2</sub> Emissions from Biomass</b>				

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

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

Custom Footnotes

Table 1(d)

LVA\_BR1\_v1.0

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**

(Sheet 1 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year <sup>a</sup>	1991	1992	1993	1994	1995	1996	1997	1998
	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	0.64	0.84	1.93	2.86
HFC-23	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NE, NO	0.00	0.00	0.00	0.00
HFC-32	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-41	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-43-10mee	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-125	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-134	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-134a	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NA, NE, NO	IE, NE, NO	0.00	0.00	0.00	0.00
HFC-152a	NA, NO	NA, NO	NA, NO	NA, NO	NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-143	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-143a	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-227ea	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-236fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
HFC-245ca	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NE, NO	NE, NO	NE, NO	NE, NO
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
CF <sub>4</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
C <sub>2</sub> F <sub>6</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
C 3F8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
C <sub>4</sub> F <sub>10</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
c-C <sub>4</sub> F <sub>8</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
C <sub>5</sub> F <sub>12</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
C <sub>6</sub> F <sub>14</sub>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NO	NO	NO	NO
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	0.25	0.29	0.51	0.71
SF <sub>6</sub>	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	0.00	0.00	0.00	0.00

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

Table 1(d)

LVA\_BR1\_v1.0

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**

(Sheet 2 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
	kt	kt	kt	kt	kt	kt	kt	kt	kt	kt
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	3.28	5.12	7.59	9.87	15.72	18.10	28.39	62.64	98.66	72.96
HFC-23	0.00	0.00	0.00	0.00	0.00	IE, NE, NO	IE, NO	IE, NO	IE, NO	0.00
HFC-32	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	0.00	0.00	0.00	0.00	0.00
HFC-41	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
HFC-43-10mee	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
HFC-125	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	0.00	0.00	0.00	0.00	0.00
HFC-134	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
HFC-134a	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.04	0.07	0.04
HFC-152a	NE, NO	NE, NO	NE, NO	NE, NO	0.00	0.00	0.00	0.00	0.00	0.00
HFC-143	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
HFC-143a	NE, NO	NE, NO	NE, NO	NE, NO	NE, NO	0.00	0.00	0.00	0.00	0.00
HFC-227ea	NE, NO	NE, NO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HFC-236fa	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
HFC-245ca	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NE, NO	NE, NO	NE, NO	NE, NO	NO	NO	NO	NO	NO	NO
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
CF <sub>4</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C <sub>2</sub> F <sub>6</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C <sub>3</sub> F <sub>8</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C <sub>4</sub> F <sub>10</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
c-C <sub>4</sub> F <sub>8</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C <sub>3</sub> F <sub>12</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
C <sub>6</sub> F <sub>14</sub>	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	0.98	1.28	1.98	3.38	4.41	5.37	7.53	7.12	8.60	10.08
SF <sub>6</sub>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

**Emission trends (HFCs, PFCs and SF<sub>6</sub>)**

(Sheet 3 of 3)

CRF: LVA\_CRF\_\_ v2.1

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	2009	2010	2011	Change from base to latest reported year
	kt	kt	kt	%
<b>Emissions of HFCsc - (kt CO<sub>2</sub> eq)</b>	74.48	72.32	82.97	100.00
HFC-23	0.00	0.00	0.00	100.00
HFC-32	0.00	0.00	0.00	100.00
HFC-41	NO	NO	NO	0.00
HFC-43-10mee	NO	NO	NO	0.00
HFC-125	0.00	0.00	0.00	100.00
HFC-134	NO	NO	NO	0.00
HFC-134a	0.04	0.04	0.04	100.00
HFC-152a	0.00	0.00	0.00	100.00
HFC-143	NO	NO	NO	0.00
HFC-143a	0.00	0.00	0.00	100.00
HFC-227ea	0.00	0.00	0.00	100.00
HFC-236fa	NO	NO	NO	0.00
HFC-245ca	NO	NO	NO	0.00
Unspecified mix of listed HFCsd - (kt CO <sub>2</sub> eq)	NO	NO	NO	0.00
<b>Emissions of PFCsc - (kt CO<sub>2</sub> eq)</b>	NA, NO	NA, NO	NA, NO	0.00
CF <sub>4</sub>	NO	NO	NO	0.00
C <sub>2</sub> F <sub>6</sub>	NO	NO	NO	0.00
C <sub>3</sub> F <sub>8</sub>	NO	NO	NO	0.00
C <sub>4</sub> F <sub>10</sub>	NO	NO	NO	0.00
c-C <sub>4</sub> F <sub>8</sub>	NO	NO	NO	0.00
C <sub>5</sub> F <sub>12</sub>	NO	NO	NO	0.00
C <sub>6</sub> F <sub>14</sub>	NO	NO	NO	0.00
Unspecified mix of listed PFCs(4) - (Gg CO <sub>2</sub> equivalent)	NO	NO	NO	0.00
<b>Emissions of SF<sub>6</sub>(3) - (Gg CO<sub>2</sub> equivalent)</b>	13.53	13.13	12.45	100.00
SF <sub>6</sub>	0.00	0.00	0.00	100.00

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

<sup>a</sup> 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.

<sup>c</sup>Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO<sub>2</sub> equivalent emissions.

<sup>d</sup>In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories", HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this row could be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is kt of CO<sub>2</sub> equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.)

**Custom Footnotes**

**Documentation Box:**

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Table 2(a)

LVA\_BR1\_v1.0

**Description of quantified economy-wide emission reduction target: base year<sup>a</sup>**

<i>Party</i>	<i>Latvia</i>	
Base year /base period	1990	
Emission reduction target	% of base year/base period	% of 1990 <sup>b</sup>
	20.00	
Period for reaching target	BY-2020	

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> Optional.

**Description of quantified economy-wide emission reduction target: gases and sectors covered<sup>a</sup>**

<i>Gases covered</i>		<i>Base year for each gas (year):</i>
CO <sub>2</sub>		1990
CH <sub>4</sub>		1990
N <sub>2</sub> O		1990
HFCs		1995
PFCs		1995
SF <sub>6</sub>		1995
NF <sub>3</sub>		1995
Other Gases (specify)		
Sectors covered <sup>b</sup>	Energy	Yes
	Transport <sup>f</sup>	Yes
	Industrial processes <sup>g</sup>	Yes
	Agriculture	Yes
	LULUCF	No
	Waste	Yes
	Other Sectors (specify)	
	Aviation	Yes

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

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> 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.

<sup>f</sup> Transport is reported as a subsector of the energy sector.

<sup>g</sup> Industrial processes refer to the industrial processes and solvent and other product use sectors.

**Description of quantified economy-wide emission reduction target: global warming potential values (GWP)<sup>a</sup>**

<i>Gases</i>	<i>GWP values<sup>b</sup></i>
CO <sub>2</sub>	4nd AR
CH <sub>4</sub>	4nd AR
N <sub>2</sub> O	4nd AR
HFCs	4nd AR
PFCs	4nd AR
SF <sub>6</sub>	4nd AR
NF <sub>3</sub>	4nd AR
Other Gases (specify)	

*Abbreviations* : GWP = global warming potential

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> 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.

**Description of quantified economy-wide emission reduction target: approach to counting emissions and removals from the LULUCF sector<sup>a</sup>**

<b>Role of LULUCF</b>	LULUCF in base year level and target	Excluded
	Contribution of LULUCF is calculated using	

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

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

**Description of quantified economy-wide emission reduction target: market-based mechanisms under the Convention<sup>a</sup>**

<i>Market-based mechanisms under the Convention</i>	<i>Possible scale of contributions (estimated kt CO<sub>2</sub> eq)</i>
CERs	
ERUs	
AAUs <sup>i</sup>	
Carry-over units <sup>j</sup>	
Other mechanism units under the Convention (specify) <sup>d</sup>	

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

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

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

<sup>i</sup> AAUs issued to or purchased by a Party.

<sup>j</sup> 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.

**Description of quantified economy-wide emission reduction target: other market-based mechanisms<sup>a</sup>**

<i>Other market-based mechanisms</i>	<i>Possible scale of contributions</i>
<i>(Specify)</i>	<i>(estimated kt CO<sub>2</sub> eq)</i>

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

**Description of quantified economy-wide emission reduction target: any other information<sup>a,b</sup>**

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<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

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

*Custom Footnotes*

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Promotion Public Understanding on the Importance and Possibilities of GHG Emissions Reduction	Cross-cutting	CO <sub>2</sub>	Promotion Public Understanding on the Importance and Possibilities of GHG Emissions Reduction	Other (Education)	Implemented	The financial support (particular programme of national Climate Change Financial Instrument) is provided from the receipts of the sale of GHG emissions (under procedures pursuant to Art.17 of UNFCCC Kyoto protocol). The support is available for publications in mass media for general and targeted audiences, thematic broadcasts, organisation of thematic workshops and trainings for targeted audience groups, educational projects for pupils and students of Latvia primary, general and professional educational establishments.	2011	MEPRD	IE	IE	IE
Latvia National Renewable Action Plan *	Cross-cutting	CO <sub>2</sub>	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	Other (Planning)	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, (iv) in the building sector regarding heating and cool– 58% (in residential sector buildings – 72%, in commercial sector buildings – 44% of GFEC).	2010	Ministry of Economy	NE	NE	20.00
Investment Support Programme for District Heating (DH) Systems	Energy	CO <sub>2</sub>	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 period of 2007-2013 the support is provided by the Cohesion Fund in the frame of National operational programme "Infrastructure and services", part „Energy” (activities No3521&3522).	2010	Ministry of Economy	176.00	176.00	176.00
Energy Efficiency Requirements for District Heating Systems	Energy	CO <sub>2</sub>	More effective use of fuel in the DH system, reducing energy loss and emissions	Regulatory	Implemented	The Governmental Regulations No 1214 (2009) define the mandatory minimum energy efficiency (i) for new and reconstructed DH networks put into operation after 01.01.2010, and (ii) for existing DH networks starting from 01.01.2018. The minimum requirements are 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	IE	IE
Preferential Feed-in Tariffs for Renewables	Energy	CO <sub>2</sub>	Increasing RES utilization in the electricity supply	Economic	Implemented	Application of RES feed-in tariffs in dependence of RES type and unit capacity	1996	Ministry of Economy	NE	NE	NE



Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Preferential Feed-in Tariffs for Combined Heat-Power Production	Energy	N <sub>2</sub> O, CH <sub>4</sub>	Increasing CHP production in the electricity supply	Economic	Adopted	Application of CHP feed-in tariffs in dependence of fuel type and unit capacity	1996	MEPRD	IE	IE	IE
Investment Support in Industrial Buildings Energy Efficiency to Reduce GHG emissions	Energy	CO <sub>2</sub>	Reduction of CO <sub>2</sub> emissions in industrial/business sector entities	Economic	Implemented	Receipts from the sale of GHG emissions (pursuant to Art.17 of UNFCCC Kyoto protocol) are earmarked national Climate Change Financial Instrument (CCFI). Part of them is allocated for CO <sub>2</sub> emissions reduction in industrial/business sector entities. Eligible investments include 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).	2010	MEPRD	20.00	20.00	20.00
Agreements on Energy Efficiency, promoting energy audits and energy management systems in industrial enterprises	Energy	CO <sub>2</sub>	Raising energy efficiency in industry sector ( in industrial buildings and technologies)	Other (Voluntary Agreement)	Adopted	The objective of the particular agreement is to achieve in the company the energy saving of at least 10%	2011	Ministry of Economy	NE	NE	NE
Investment Support Programmes to Increase Energy Efficiency in Apartment Buildings	Energy	CO <sub>2</sub>	More efficient use of final energy, reducing energy loss and emissions by involving end-users to increase energy performance of buildings.	Economic	Implemented	In financial period of 2007-2013 the investments in energy efficient building renovation are 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 has 2 target audiences: 1) apartments owners of multi-apartment residential buildings, and 2) tenants of municipal social residential buildings.	2010	Ministry of Economy	23.00	23.00	23.00
Energy Audits of Residential Multi-apartment buildings	Energy	CO <sub>2</sub>	More efficient use of final energy, reducing energy loss and emissions by providing recommendations for increasing energy efficiency	Other (Information)	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	2009	Ministry of Economy	IE	IE	IE

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Informing Energy Consumers of Residential Sector (Multi-apartment buildings)	Energy	CO <sub>2</sub>	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 "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.	2010	Ministry of Economy	IE	IE	IE
Financial Support (Grants) for Renewable Energy Technologies in Households	Energy	CO <sub>2</sub>	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) is available from the receipts of the sale of GHG emissions (under procedures pursuant to Art. 17 of UNFCCC Kyoto protocol). Eligible micro-generation technologies are: 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 are eligible. The support for 1 project may be up to 9960 EUR.	2011	MEPRD	16.00	16.00	16.00
Investment Support Programmes in Public Sector Energy Efficiency	Energy	CO <sub>2</sub>	Reduction of CO2 emissions in public (municipal and state) sector	Economic	Implemented	The financial support (particular programmes of national Climate Change Financial Instrument) is available from the receipts of the sale of GHG emissions (under procedure pursuant to Art.17 of UNFCCC Kyoto protocol). The support is available to improve heating and lightning energy efficiency as well as to realize fuel switch to RES in the public buildings	2011	MEPRD	27.00	27.00	27.00
Investment Support Programme in Renewable Technologies for Heat and Electricity Production to Reduce GHG emissions	Energy	CO <sub>2</sub>	Reduction of CO2 emission by installation of RES technologies for both heat, power and CHP production	Economic	Implemented	The support is available from the receipts of the sale of GHG emissions (national Climate Change Financial Instrument). The eligible beneficiaries are both business sector entities (operators participating in EU ETS are non-eligible) and public sector institutions	2010	MEPRD	195.00	195.00	195.00

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Investment Support to Produce Energy from Biomass of Agriculture and Forestry Origin	Energy	CO <sub>2</sub>	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 is 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	51.00	51.00	51.00
Energy Performance of Buildings (Directive 2002/91/EC)	Energy	CO <sub>2</sub>	Reducing final energy and emissions in buildings by increasing energy efficiency	Regulatory	Implemented	The Law on the Energy Performance of Buildings (2008) in accordance with the requirements of the Directive 2002/91/EC introduced the general legal framework of setting the mandatory minimum energy performance requirements for new buildings and for buildings under reconstruction, the general principles of energy efficiency certification for these buildings, verification of buildings heating and ventilation systems	2008	Ministry of Economy	IE	IE	IE
Energy Performance of Buildings	Energy	CO <sub>2</sub>	Reducing final energy and emissions in buildings by increasing energy efficiency and public informing	Regulatory	Adopted	The recasted Law on the Energy Performance of Buildings (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 shall be introduced by Governmental Regulations.	2013	Ministry of Economy	IE	IE	IE
Energy Labelling on Household Appliances	Energy	CO <sub>2</sub>	Reducing energy consumption and emissions in households	Other (Information)	Implemented	The mandatory energy labelling for household electrical appliances is established by the set of Governmental Regulations. Implementing 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.	2001	Ministry of Economy	NE	NE	NE
Fuel Taxation – Other sectors	Energy	CO <sub>2</sub>	To provide economic incentives for effective use of fossil fuels and promote use of RES fuel thus reducing emissions	Fiscal	Implemented	The procedure regarding oil products (from 1997) and natural gas (from 2010) taxation is established by the Law "On Excise Duties" (the duties are not applied for those products which are utilises in another way as fuel), regarding coal (from 2007)– by the Natural Resource Tax. Zero tax rate is defined for pure biofuel, the reduced rate – for fuel with 5% biofuel mix. In addition, the range of exemptions is made for certain consumers groups and certain types of fuels.	1997	Ministry of Economy, Ministry of Finance	NE	NE	NE

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Taxation of Electricity	Energy	CO <sub>2</sub>	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. 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.	2007	Ministry of Economy, Ministry of Finance	NE	NE	NE
Taxation of CO <sub>2</sub> emissions	Energy	CO <sub>2</sub>	To provide economic incentives to reduce CO <sub>2</sub> emissions	Fiscal	Implemented	The procedure is prescribed by the Natural Resources Tax Law. The tax shall not be paid (Article 10) (i) for the CO <sub>2</sub> 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 CO <sub>2</sub> emission is gradually raised up from the starting rate 0.142 EUR up to 2.846 EUR (01.2013).	2005	Ministry of Economy, Ministry of Finance	NE	NE	NE
Taxation on Noxious Air Polluting Emissions	Energy	CO <sub>2</sub>	To provide economic incentives to reduce noxious air emissions (synergy with CO <sub>2</sub> reduction) by the use of more energy efficient and less polluting technologies	Fiscal	Implemented	The procedure is prescribed by the Natural Resources Tax Law. The emissions of PM10, CO, SO <sub>2</sub> , NO <sub>x</sub> , NH <sub>3</sub> , H <sub>2</sub> S and other non-organic compounds, CnHm, VOC, metals (Cd, Ni, Sn, Hg, Pb, Zn, Cr, As, Se, Cu) and their compounds, V <sub>2</sub> O <sub>5</sub> 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.	1991	Ministry of Economy, Ministry of Finance	NE	NE	NE
Performance of Heat Generators for Space Heating and the Production of Hot Water	Energy	CO <sub>2</sub>	Reducing energy and emissions by prescribing essential requirements for heat boilers	Regulatory	Implemented	The Governmental 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	MEPRD	NE	NE	NE
Implementation of the EU Emissions Trading Scheme	Energy	CO <sub>2</sub>	Reduction of CO <sub>2</sub> emissions emitted by EU ETS operators	Other (Economic)	Implemented	Limited amount of emission quota allocated for Latvia as a whole and for everyone of ETS operators in Latvia	2005	Ministry of Economy	IE	IE	IE

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Biofuel Mix Obligation Requirement	Transport	CO <sub>2</sub>	Increasing the share of RES in the fuel balance of transport sector	Regulatory	Implemented	In 01.10.2009 Latvia has 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 obligatory for the gasoline of "95" trademark. 4.5-5% (volume) biodiesel mix is obligatory 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. It is planned from 01.04.2014 to introduce 6.5-7% (volume) biodiesel mix.	2010	Ministry of Economy	125.00	125.00	125.00
Excise Tax – Transport sector	Transport	CO <sub>2</sub>	To provide economic incentives regarding effective use of transport fuel and use of RES fuel in transport, thus reducing emissions	Fiscal	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 following biofuels produced in Latvia or imported from EU member states: (1) gasoline with 70-85% (volume) of ethanol produced from agriculture origin raw materials, (2) diesel (gas oil) with at least 30% (volume) mix of biodiesel, (3) pure biodiesel is exempted from taxation. To promote the competitiveness of agriculture sector the exempt from taxation is made 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.	1993	Ministry of Economy, Ministry of Finance	NE	NE	NE
Applying of differential tax rates for transport vehicles depending on age and engine size or on CO2 emission factor	Transport	CO <sub>2</sub>	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 Transport Vehicle Circulation Tax and Business Entities Owned Cars Taxation" establishes 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 1 km for the new cars, previously non-registered or have been registered abroad after 01.01.2009	2007	Ministry of Transport, Ministry of Finance	41.00	41.00	NE

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
New Passenger Cars Labelling on Fuel Economy Rating	Transport	CO <sub>2</sub>	To motivate car owners to choose fuel consumption and CO <sub>2</sub> emissions efficient car.	Other (Information)	Implemented	The labelling of cars regarding fuel consumption (litres per 100 km or km per litre) and CO <sub>2</sub> emissions (grams per km)	2003	Ministry of Economy	56.00	205.00	205.00
Systematic inspection of the technical conditions	Transport	CO <sub>2</sub>	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	NE	NE	NE
Development of public transport network	Transport	CO <sub>2</sub>	To decrease fuel consumption by further development and optimisation of public transport network	Other (Planning)	Adopted	The given measure, included in Latvia 2nd NEEP, envisages the improvement of the system of public transport network planning; 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; organisation of harmonised public transport network in accordance with new administrative borders of municipalities (established as a result of administrative territorial reform in year 2009).	2011	Ministry of Transport	NE	NE	NE

Table 3

LVA\_BR1\_v1.0

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

Name of mitigation action <sup>a</sup>	Sector(s) affected <sup>b</sup>	GHG(s) affected	Objective and/or activity affected	Type of instrument <sup>c</sup>	Status of implementation <sup>d</sup>	Brief description <sup>e</sup>	Start year of implementation	Implementing entity or entities	Estimate of mitigation impact (not cumulative, in kt CO <sub>2</sub> eq)		
									2015	2020	2025
Implementation of Nitrates Directive	Agriculture	N <sub>2</sub> O	Arrangement and construction of manure storage facilities. Reduced water pollution and reduced emissions when fertilisers are applied to the soil.	Regulatory	Implemented	Providing for construction of manure storage facilities with sufficient volume for ensuring storage of collected manure. Requirements incorporated in regulatory acts promote gradual reduction of GHG emissions, for instance, requirements to arrange storage facilities and animal stalls where 10 or more animals are held or 5 animals in nitrate vulnerable territories. In vulnerable territories, more stringent requirements are applied for protection of water and soil against pollution caused by nitrates from agricultural sources, mandatory measures and restrictions are stipulated.	2011	Ministry of Agriculture	NE	NE	NE
National Development Plan of Latvia for 2014–2020*	Agriculture	N <sub>2</sub> O	Maintain of the natural capital as the basis for sustainable economic growth and promote its sustainable uses while minimising natural and human risks to the quality of the environment.	Other (Other (Planning))	Planned	Expanding area used for organic farming leads to reduce the use of synthetic fertilizers.	2014	Ministry of Agriculture	NE	NE	NE
Reduce disposal of Biodegradable wastes	Waste management/waste	CH <sub>4</sub>	Reducing biodegradable waste disposal in landfills.	Other (Other (Planning))	Planned	Reducing of biodegradable waste in landfills, directly reducing CH <sub>4</sub> emissions from disposal.	2010	MEPRD	IE	IE	IE
Promotion of recycling of municipal solid waste *	Waste management/waste	CH <sub>4</sub> , CO <sub>2</sub>	Promotion of recycling of municipal solid waste	Other (Other (Planning))	Planned	50% (by weight) of Municipal solid wastes must be recycled by 2020. All these wastes will not be disposed in landfills and thus will not emit CH <sub>4</sub> after disposal.	2016	Ministry of Economy	NE	NE	NE
Regulations for the reporting of the F-gases activities	Industry/industrial processes	HFCs, SF <sub>6</sub>	Contain, prevent and thereby reduce emissions of the fluorinated greenhouse gases covered by the Kyoto Protocol.	Regulatory	Implemented	Regulations of ozone depleting substances and fluorinated greenhouse gases that are freezing agents with whom producers, importers, exporters and operators need to report their activities with the F-gases for previous year till next year 1st February.	2007	MEPRD	NE	NE	NE

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

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

<sup>a</sup> Parties should use an asterisk (\*) to indicate that a mitigation action is included in the 'with measures' projection.

<sup>b</sup> 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.

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

<sup>d</sup> To the extent possible, the following descriptive terms should be used to report on the status of implementation: implemented, adopted, planned.

<sup>e</sup> Additional information may be provided on the cost of the mitigation actions and the relevant timescale.

<sup>f</sup> Optional year or years deemed relevant by the Party.

Custom Footnotes

**Reporting on progress<sup>a, b</sup>**

<i>Year<sup>c</sup></i>	<i>Total emissions excluding LULUCF</i>	<i>Contribution from LULUCF<sup>d</sup></i>	<i>Quantity of units from market based mechanisms under the Convention</i>		<i>Quantity of units from other market based mechanisms</i>	
	<i>(kt CO<sub>2</sub> eq)</i>	<i>(kt CO<sub>2</sub> eq)</i>	<i>(number of units)</i>	<i>(kt CO<sub>2</sub> eq)</i>	<i>(number of units)</i>	<i>(kt CO<sub>2</sub> eq)</i>
(1990)						
2010						
2011			3,240.17			
2012			2,923.45			

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

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> 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.

<sup>c</sup> Parties may add additional rows for years other than those specified below.

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

**Custom Footnotes**



**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 2011<sup>a,b</sup>**

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

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

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> 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.

<sup>c</sup> 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.

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

<sup>e</sup> If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

<sup>f</sup> 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).

<sup>g</sup> Specify what was used for the category “other”. Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

**Custom Footnotes**

**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 2012<sup>a, b</sup>**

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

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

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> 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.

<sup>c</sup> 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.

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

<sup>e</sup> If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

<sup>f</sup> 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).

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

**Custom Footnotes**

Table 4(a)II

LVA\_BR1\_v1.0  
Source: LVA\_CRF\_\_v2.1

Progress in achievement of the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the counting of emissions and removals from the land use, land-use change and forestry sector in relation to activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol<sup>a,b,c</sup>

GREENHOUSE GAS SOURCE AND SINK ACTIVITIES	Base year <sup>d</sup>	Net emissions/removals <sup>e</sup>					Accounting parameters <sup>h</sup>	Accounting quantity <sup>i</sup>
		2008	2009	2010	2011	Total <sup>f</sup>		
(kt CO <sub>2</sub> eq)								
<b>A. Article 3.3 activities</b>								
A.1. Afforestation and Reforestation								-3'929.79
A.1.1. Units of land not harvested since the beginning of the commitment periodj		-908.49	-1,007.09	-1,007.09	-1,007.12	-3,929.79		-3'929.79
A.1.2. Units of land harvested since the beginning of the commitment periodj								NA,NO
A.2. Deforestation		1,079.89	1,067.95	1,044.78	1,042.65	4,235.27		4235.26877
<b>B. Article 3.4 activities</b>								
B.1. Forest Management (if elected)		-19,093.16	-17,774.32	-14,603.09	-14,851.39	-66,321.95		-6538.81182
3.3 offset <sup>k</sup>							305.47848	-305.47848
FM cap <sup>l</sup>							6233.33333	-6233.33333
B.2. Cropland Management (if elected)	0	NA	NA	NA	NA	NA	0	0
B.3. Grazing Land Management (if elected)	0	NA	NA	NA	NA	NA	0	0
B.4. Revegetation (if elected)	0	NA	NA	NA	NA	NA	0	0

Note: 1 kt CO<sub>2</sub> eq equals 1 Gg CO<sub>2</sub> eq.

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

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

<sup>b</sup> Developed country Parties with a quantified economy-wide emission reduction target as communicated to the secretariat and contained in document FCCC/SB/2011/INF.1/Rev.1 or any update to that document, that are Parties to the Kyoto Protocol, may use table 4(a)II for reporting of accounting quantities if LULUCF is contributing to the attainment of that target.

<sup>c</sup> Parties can include references to the relevant parts of the national inventory report, where accounting methodologies regarding LULUCF are further described in the documentation box or in the biennial

<sup>d</sup> Net emissions and removals in the Party's base year, as established by decision 9/CP.2.

<sup>e</sup> All values are reported in the information table on accounting for activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol, of the CRF for the relevant inventory year as reported in the current submission and are automatically entered in this table.

<sup>f</sup> Additional columns for relevant years should be added, if applicable.

<sup>g</sup> Cumulative net emissions and removals for all years of the commitment period reported in the current submission.

<sup>h</sup> The values in the cells "3.3 offset" and "Forest management cap" are absolute values.

<sup>i</sup> The accounting quantity is the total quantity of units to be added to or subtracted from a Party's assigned amount for a particular activity in accordance with the provisions of Article 7, paragraph 4, of the Kyoto Protocol.

<sup>j</sup> In accordance with paragraph 4 of the annex to decision 16/CMP.1, debits resulting from harvesting during the first commitment period following afforestation and reforestation since 1990 shall not be greater than the credits accounted for on that unit of land.

<sup>k</sup> In accordance with paragraph 10 of the annex to decision 16/CMP.1, for the first commitment period a Party included in Annex I that incurs a net source of emissions under the provisions of Article 3 paragraph 3, may account for anthropogenic greenhouse gas emissions by sources and removals by sinks in areas under forest management under Article 3, paragraph 4, up to a level that is equal to the net source of emissions under the provisions of Article 3, paragraph 3, but not greater than 9.0 megatonnes of carbon times five, if the total anthropogenic greenhouse gas emissions by sources and removals by sinks in the managed forest since 1990 is equal to, or larger than, the net source of emissions incurred under Article 3, paragraph 3.

<sup>l</sup> In accordance with paragraph 11 of the annex to decision 16/CMP.1, for the first commitment period of the Kyoto Protocol only, additions to and subtractions from the assigned amount of a Party resulting from Forest management under Article 3, paragraph 4, after the application of paragraph 10 of the annex to decision 16/CMP.1 and resulting from forest management project activities undertaken under Article 6, shall not exceed the value inscribed in the appendix of the annex to decision 16/CMP.1, times five.

#### Custom Footnotes

#### Documentation Box:

**Reporting on progress<sup>a, b, c</sup>**

<i>Units of market based mechanisms</i>			<i>Year</i>	
			<i>2011</i>	<i>2012</i>
<i>Kyoto Protocol units<sup>d</sup></i>	<i>Kyoto Protocol units</i>	<i>(number of units)</i>	3,240.17	2,923.45
		<i>(kt CO<sub>2</sub> eq)</i>		
	<i>AAUs</i>	<i>(number of units)</i>	3,010.59	2,847.92
		<i>(kt CO<sub>2</sub> eq)</i>		
	<i>ERUs</i>	<i>(number of units)</i>	18.00	21.79
		<i>(kt CO<sub>2</sub> eq)</i>		
	<i>CERs</i>	<i>(number of units)</i>	211.58	53.74
		<i>(kt CO<sub>2</sub> eq)</i>		
	<i>tCERs</i>	<i>(number of units)</i>		
		<i>(kt CO<sub>2</sub> eq)</i>		
<i>ICERs</i>	<i>(number of units)</i>			
	<i>(kt CO<sub>2</sub> eq)</i>			
<i>Other units<sup>d,e</sup></i>	<i>Units from market-based mechanisms under the Convention</i>	<i>(number of units)</i>		
		<i>(kt CO<sub>2</sub> eq)</i>		
	<i>Units from other market-based mechanisms</i>	<i>(number of units)</i>		
		<i>(kt CO<sub>2</sub> eq)</i>		
<i>Total</i>	<i>(number of units)</i>	3,240.17	2,923.45	
	<i>(kt CO<sub>2</sub> eq)</i>			

*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.

<sup>a</sup> Reporting by a developed country Party on the information specified in the common tabular format does not prejudice 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.

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

<sup>c</sup> Parties may include this information, as appropriate and if relevant to their target.

<sup>d</sup> Units surrendered by that Party for that year that have not been previously surrendered by that or any other Party.

<sup>e</sup> Additional rows for each market-based mechanism should be added, if applicable.

**Custom Footnotes**

Table 5

LVA\_BR1\_v1.0

**Summary of key variables and assumptions used in the projections analysis<sup>a</sup>**

<i>Key underlying assumptions</i>		<i>Historical<sup>b</sup></i>						<i>Projected</i>			
<i>Assumption</i>	<i>Unit</i>	<i>1990</i>	<i>1995</i>	<i>2000</i>	<i>2005</i>	<i>2010</i>	<i>2011</i>	<i>2015</i>	<i>2020</i>	<i>2025</i>	<i>2030</i>
<i>Population</i>	<i>thousands</i>	2,668.00	2,501.00	2,382.00	2,250.00	2,121.00	2,075.00	1,993.00	1,950.00	1,940.00	1,945.00
GDP growth rate	%			5.60	8.20	-0.70	5.30	5.10	4.40	3.70	3.20
International coal price	USD / boe					3.05		4.23	4.41	4.56	4.69
International oil price	USD / boe					9.41		12.60	14.00	15.10	15.95
<i>International gas price</i>	<i>USD / boe</i>					8.78		9.34	9.90	10.71	11.34

<sup>a</sup> Parties should include key underlying assumptions as appropriate.

<sup>b</sup> Parties should include historical data used to develop the greenhouse gas projections reported.

***Custom Footnotes***

Table 6(a)

LVA\_BR1\_v1.0

Information on updated greenhouse gas projections under a 'with measures' scenario<sup>a</sup>

	GHG emissions and removals <sup>b</sup>							GHG emission projections	
	(kt CO <sub>2</sub> eq)							(kt CO <sub>2</sub> eq)	
	Base year (1990)	1990	1995	2000	2005	2010	2011	2020	2030
<b>Sector<sup>d,e</sup></b>									
Energy	16,137.26	16,137.26	7,441.78	5,172.86	5,019.01	5,227.99	4,715.53	5,772.45	6,214.60
Transport	2,999.04	2,999.04	2,072.86	2,168.24	3,060.25	3,259.09	3,141.50	3,401.25	3,550.05
Industry/industrial processes	649.57	649.57	201.70	224.21	321.90	650.58	769.01	1,013.68	1,205.38
Agriculture	5,931.27	5,931.27	2,307.62	1,956.33	2,174.00	2,326.80	2,320.62	3,141.92	4,625.42
Forestry/LULUCF	-22,306.06	-22,306.06	-21,618.46	-19,243.39	-17,992.25	-16,410.78	-17,179.20	-18,332.92	-13,526.30
Waste management/waste	595.30	595.30	575.14	583.24	582.00	632.60	598.63	470.85	438.98
Other (specify)	IE	IE	IE	IE	IE	IE	IE	IE	IE
Aviation	IE	IE	IE	IE	IE	IE	IE	IE	IE
<b>Gas</b>									
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	-3,432.60	-3,432.60	-12,775.30	-12,471.76	-10,398.74	-8,084.79	-9,261.49	-8,984.14	-3,604.67
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	19,041.87	19,041.87	9,036.44	6,992.61	7,789.85	8,529.00	8,088.05	9,651.73	10,389.75
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	3,485.94	3,485.94	2,062.55	1,764.89	1,758.75	1,780.14	1,641.07	1,708.71	1,972.10
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	3,466.57	3,466.57	2,026.36	1,706.04	1,723.91	1,739.71	1,631.52	1,698.08	1,961.32
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	3,953.05	3,953.05	1,692.50	1,561.97	1,768.98	1,905.49	1,891.08	2,604.05	3,928.75
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	3,804.00	3,804.00	1,535.40	1,399.83	1,607.48	1,742.91	1,730.28	2,311.74	3,471.40
HFCs	IE, NA, NE, NO	IE, NA, NE, NO	0.64	5.12	28.39	72.32	82.97	119.13	184.57
PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
SF <sub>6</sub>	NA, NE, NO	NA, NE, NO	0.25	1.28	7.53	13.13	12.45	19.48	27.39
Other (specify)									
<b>Total with LULUCF<sup>f</sup></b>	4,006.39	4,006.39	-9,019.36	-9,138.50	-6,835.09	-4,313.71	-5,633.92	-4,532.77	2,508.14
<b>Total without LULUCF</b>	26,312.44	26,312.44	12,599.09	10,104.88	11,157.16	12,097.07	11,545.27	13,800.16	16,034.43

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

**Information on updated greenhouse gas projections under a ‘with measures’ scenario<sup>a</sup>**

	<i>GHG emissions and removals<sup>b</sup></i>							GHG emission projections	
	<i>(kt CO<sub>2</sub> eq)</i>							<i>(kt CO<sub>2</sub> eq)</i>	
	<i>Base year (1990)</i>	1990	1995	2000	2005	2010	2011	2020	2030

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

<sup>d</sup> 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.

<sup>e</sup> 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.

<sup>f</sup> Parties may choose to report total emissions with or without LULUCF, as appropriate.

**Custom Footnotes**

Table 6(c)

LVA\_BR1\_v1.0

Information on updated greenhouse gas projections under a 'with additional measures' scenario<sup>a</sup>

	GHG emissions and removals <sup>b</sup>							GHG emission projections	
	(kt CO <sub>2</sub> eq)								
	Base year (1990)	1990	1995	2000	2005	2010	2011	2020	2030
<b>Sector<sup>d,e</sup></b>									
Energy	16,137.26	16,137.26	7,441.78	5,172.86	5,019.01	5,227.99	4,715.53	5,200.59	5,626.63
Transport	2,999.04	2,999.04	2,072.86	2,168.24	3,060.25	3,259.09	3,141.50	3,349.96	3,449.11
Industry/industrial processes	649.57	649.57	201.70	224.21	321.90	650.58	769.01	1,013.68	1,205.38
Agriculture	5,931.27	5,931.27	2,307.62	1,956.33	2,174.00	2,326.80	2,320.62	3,127.75	4,505.49
Forestry/LULUCF	-22,306.06	-22,306.06	-21,618.46	-19,243.39	-17,992.25	-16,410.78	-17,179.20	-19,025.26	-14,943.71
Waste management/waste	595.30	595.30	575.14	583.24	582.00	632.60	598.63	441.67	358.01
Other (specify)	IE	IE	IE	IE	IE	IE	IE	IE	IE
Aviation	IE	IE	IE	IE	IE	IE	IE	IE	IE
<b>Gas</b>									
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF	-3,432.60	-3,432.60	-12,775.30	-12,471.76	-10,398.74	-8,084.79	-9,261.49	-10,308.96	-5,718.57
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF	19,041.87	19,041.87	9,036.44	6,992.61	7,789.85	8,529.00	8,088.05	9,019.24	9,693.26
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF	3,485.94	3,485.94	2,062.55	1,764.89	1,758.75	1,780.14	1,641.07	1,676.60	1,879.94
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF	3,466.57	3,466.57	2,026.36	1,706.04	1,723.91	1,739.71	1,631.52	1,665.96	1,869.16
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF	3,953.05	3,953.05	1,692.50	1,561.97	1,768.98	1,905.49	1,891.08	2,602.15	3,827.59
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF	3,804.00	3,804.00	1,535.40	1,399.83	1,607.48	1,742.91	1,730.28	2,309.85	3,370.24
HFCs	IE, NA, NE, NO	IE, NA, NE, NO	0.64	5.12	28.39	72.32	82.97	119.13	184.57
PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
SF <sub>6</sub>	NA, NE, NO	NA, NE, NO	0.25	1.28	7.53	13.13	12.45	19.48	27.39
Other (specify)									
<b>Total with LULUCF<sup>f</sup></b>	4,006.39	4,006.39	-9,019.36	-9,138.50	-6,835.09	-4,313.71	-5,633.92	-5,891.60	200.92
<b>Total without LULUCF</b>	26,312.44	26,312.44	12,599.09	10,104.88	11,157.16	12,097.07	11,545.27	13,133.66	15,144.62

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



**Information on updated greenhouse gas projections under a ‘with additional measures’ scenario<sup>a</sup>**

	<i>GHG emissions and removals<sup>b</sup></i>							GHG emission projections	
	<i>(kt CO<sub>2</sub> eq)</i>							<i>(kt CO<sub>2</sub> eq)</i>	
	<i>Base year (1990)</i>	1990	1995	2000	2005	2010	2011	2020	2030

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

<sup>d</sup> 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.

<sup>e</sup> 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.

<sup>f</sup> Parties may choose to report total emissions with or without LULUCF, as appropriate.

Table 7

LVA\_BR1\_v1.0

**Provision of public financial support: summary information in 2011<sup>a</sup>**

Allocation channels	Year									
	Latvian lats - LVL					USD <sup>b</sup>				
	Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>				Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>			
		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>		Mitigation	Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>
<b>Total contributions through multilateral channels:</b>	7,028.04					13,489.52				
Multilateral climate change funds <sup>g</sup>										
Other multilateral climate change funds <sup>h</sup>										
Multilateral financial institutions, including regional development banks	7,028.04					13,489.52				
Specialized United Nations bodies										
<b>Total contributions through bilateral, regional and other channels</b>										
<b>Total</b>	7,028.04					13,489.52				

Abbreviation: USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> 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.

<sup>c</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>d</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>e</sup> This refers to funding for activities which are cross-cutting across mitigation and adaptation.

<sup>f</sup> Please specify.

<sup>g</sup> Multilateral climate change funds listed in paragraph 17(a) of the “UNFCCC biennial reporting guidelines for developed country Parties” in decision 2/CP.17.

<sup>h</sup> Other multilateral climate change funds as referred in paragraph 17(b) of the “UNFCCC biennial reporting guidelines for developed country Parties” in decision 2/CP.17.

**Custom Footnotes**

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

**Documentation Box:**

Table 7

LVA\_BR1\_v1.0

**Provision of public financial support: summary information in 2012<sup>a</sup>**

Allocation channels	Year									
	Latvian lats - LVL					USD <sup>b</sup>				
	Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>				Core/ general <sup>c</sup>	Climate-specific <sup>d</sup>			
Mitigation		Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>	Mitigation		Adaptation	Cross-cutting <sup>e</sup>	Other <sup>f</sup>	
<b>Total contributions through multilateral channels:</b>	7,028.04					13,489.52				
Multilateral climate change funds <sup>g</sup>										
Other multilateral climate change funds <sup>h</sup>										
Multilateral financial institutions, including regional development banks	7,028.04					13,489.52				
Specialized United Nations bodies										
<b>Total contributions through bilateral, regional and other channels</b>										
<b>Total</b>	7,028.04					13,489.52				

Abbreviation: USD = United States dollars.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> 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.

<sup>c</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>d</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>e</sup> This refers to funding for activities which are cross-cutting across mitigation and adaptation.

<sup>f</sup> Please specify.

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

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

**Custom Footnotes**

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

**Documentation Box:**

**Provision of public financial support: contribution through multilateral channels in 2011<sup>a</sup>**

Donor funding	Total amount				Status <sup>b</sup>	Funding source <sup>f</sup>	Financial instrument <sup>f</sup>	Type of support <sup>f,8</sup>	Sector <sup>c</sup>
	Core/general <sup>d</sup>		Climate-specific <sup>e</sup>						
	Latvian lats - LVL	USD	Latvian lats - LVL	USD					
Total contributions through multilateral channels	7,028.04	13,489.52							
Multilateral climate change funds <sup>g</sup>									
1. Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund									
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds									
Multilateral financial institutions, including regional development banks	7,028.04	13,489.52							
1. World Bank									
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development	7,028.04	13,489.52			Provided	ODA	Grant	Other ()	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.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> 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.

<sup>c</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>d</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>e</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>f</sup> Please specify.

<sup>g</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

Table 7(a)

LVA\_BR1\_v1.0

**Provision of public financial support: contribution through multilateral channels in 2012<sup>a</sup>**

Donor funding	Total amount				Status <sup>b</sup>	Funding source <sup>f</sup>	Financial instrument <sup>f</sup>	Type of support <sup>f, g</sup>	Sector <sup>c</sup>
	Core/general <sup>d</sup>		Climate-specific <sup>e</sup>						
	Latvian lats - LVL	USD	Latvian lats - LVL	USD					
Total contributions through multilateral channels	7,028.04	13,489.52							
Multilateral climate change funds <sup>g</sup>									
1. Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund									
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds									
Multilateral financial institutions, including regional development banks	7,028.04	13,489.52							
1. World Bank									
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development	7,028.04	13,489.52			Provided	ODA	Grant	Other ()	
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.

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> 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.

<sup>c</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>d</sup> This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

<sup>e</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>f</sup> Please specify.

<sup>g</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

**Custom Footnotes**

**Provision of public financial support: contribution through bilateral, regional and other channels in 2011<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>Latvian lats - LVL</i>	<i>USD</i>						
Total contributions through bilateral, regional and other channels								

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

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should report, to the extent possible, on details contained in this table.

<sup>c</sup> 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.

<sup>d</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>e</sup> Parties should report, as appropriate, on project details and the implementing agency.

<sup>f</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>g</sup> Please specify.

<sup>h</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

***Custom Footnotes***

Table 7(b)

LVA\_BR1\_v1.0

**Provision of public financial support: contribution through bilateral, regional and other channels in 2012<sup>a</sup>**

<i>Recipient country/ region/project/programme<sup>b</sup></i>	<i>Total amount</i>		<i>Status<sup>c</sup></i>	<i>Funding source<sup>g</sup></i>	<i>Financial instrument<sup>g</sup></i>	<i>Type of support<sup>g, h</sup></i>	<i>Sector<sup>d</sup></i>	<i>Additional information<sup>e</sup></i>
	<i>Climate-specific<sup>f</sup></i>							
	<i>Latvian lats - LVL</i>	<i>USD</i>						
Total contributions through bilateral, regional and other channels								

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

<sup>a</sup> Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

<sup>b</sup> Parties should report, to the extent possible, on details contained in this table.

<sup>c</sup> 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.

<sup>d</sup> Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

<sup>e</sup> Parties should report, as appropriate, on project details and the implementing agency.

<sup>f</sup> Parties should explain in their biennial reports how they define funds as being climate-specific.

<sup>g</sup> Please specify.

<sup>h</sup> Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

***Custom Footnotes***

Table 8

**Provision of technology development and transfer support<sup>a,b</sup>**

<i>Recipient country and/or region</i>	<i>Targeted area</i>	<i>Measures and activities related to technology transfer</i>	<i>Sector<sup>c</sup></i>	<i>Source of the funding for technology transfer</i>	<i>Activities undertaken by</i>	<i>Status</i>	<i>Additional information<sup>d</sup></i>

<sup>a</sup> To be reported to the extent possible.

<sup>b</sup> The tables should include measures and activities since the last national communication or biennial report.

<sup>c</sup> Parties may report sectoral disaggregation, as appropriate.

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

***Custom Footnotes***



**Provision of capacity-building support<sup>a</sup>**

<i>Recipient country/region</i>	<i>Targeted area</i>	<i>Programme or project title</i>	<i>Description of programme or project<sup>b,c</sup></i>
Iraq	Multiple Areas	Training course for the Ministry of Environment of Iraq Kurdistan Region representatives	The training took place in Latvia 15 – 25 October 2009 and representatives of Kurdistan were introduced with environmental institutional framework and legislation of Latvia as well as implementation experience of a number of environmental projects was shared.
Georgia	Mitigation	Bilateral agreement	Under agreement action aims to build the capacity of public administration and experts and provide methodological support in receiving country. The skills gained will be used during the project for creating instruments for raising public awareness and to promote climate change mitigation actions and technologies. Exchange of the experience (2011).
Georgia	Multiple Areas		Exchange of experience and training for Representatives of Georgian Ministry of Environmental Protection and Natural Resources
Armenia	Multiple Areas		Exchange of experience with the Representatives of Georgian Ministry of Environmental Protection and Natural Resources and Ministry of Nature Protection of Armenia and about Kyoto commitments, including emissions trading.
Azerbaijan, Georgia	Mitigation	Bilateral agreement	Under agreement action aims to build the capacity of public administration and experts and provide methodological support in receiving country. The skills gained will be used during the project for creating instruments for raising public awareness and to promote climate change mitigation actions and technologies. Exchange of the experience (2012).

<sup>a</sup> To be reported to the extent possible.

<sup>b</sup> 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.

<sup>c</sup> Additional information may be provided on, for example, the measure or activity and co-financing arrangements.

**Custom Footnotes**