BR CTF submission workbook

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

| | Base year ^a | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| GREENHOUSE GAS EMISSIONS | kt CO ₂ eq | | | 1 | | | | | |
| CO ₂ emissions without net CO ₂ from LULUCF | 24,074.30 | 24,074.30 | 17,630.76 | 17,050.12 | 17,565.03 | 16,706.04 | 17,326.48 | 17,870.74 | 18,952.39 |
| CO ₂ emissions with net CO ₂ from LULUCF | 18,530.88 | 18,530.88 | 10,515.59 | 9,611.10 | 9,557.33 | 8,844.06 | 8,878.42 | 9,726.37 | 11,449.44 |
| CH ₄ emissions without CH ₄ from LULUCF | 6,952.89 | 6,952.89 | 5,985.15 | 5,432.99 | 5,467.80 | 5,058.67 | 4,951.94 | 4,824.60 | 4,777.23 |
| CH ₄ emissions with CH ₄ from LULUCF | 6,954.12 | 6,954.12 | 5,988.33 | 5,448.14 | 5,502.19 | 5,070.18 | 4,959.49 | 4,841.13 | 4,794.86 |
| N ₂ O emissions without N ₂ O from LULUCF | 2,838.10 | 2,838.10 | 2,675.25 | 2,706.63 | 2,312.50 | 2,311.87 | 2,244.23 | 2,222.14 | 2,412.90 |
| N ₂ O emissions with N ₂ O from LULUCF | 2,843.63 | 2,843.63 | 2,681.93 | 2,721.60 | 2,340.04 | 2,323.83 | 2,253.28 | 2,237.33 | 2,428.63 |
| HFCs | NO | NO | NO | NO | NO | NO | 57.28 | 80.07 | 106.14 |
| PFCs | 1,240.24 | 1,240.24 | 850.75 | NO | NO | NO | NO | NO | NO |
| Unspecified mix of HFCs and PFCs | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| SF ₆ | 10.45 | 10.45 | 10.33 | 10.42 | 10.53 | 10.64 | 11.12 | 11.57 | 11.43 |
| NF3 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Total (without LULUCF) | 35,115.98 | 35,115.98 | 27,152.25 | 25,200.15 | 25,355.86 | 24,087.23 | 24,591.06 | 25,009.12 | 26,260.09 |
| Total (with LULUCF) | 29,579.31 | 29,579.31 | 20,046.94 | 17,791.26 | 17,410.09 | 16,248.71 | 16,159.59 | 16,896.47 | 18,790.50 |
| Total (without LULUCF, with indirect) | 35,115.98 | 35,115.98 | 27,152.25 | 25,200.15 | 25,355.86 | 24,087.23 | 24,591.06 | 25,009.12 | 26,260.09 |
| Total (with LULUCF, with indirect) | 29,579.31 | 29,579.31 | 20,046.94 | 17,791.26 | 17,410.09 | 16,248.71 | 16,159.59 | 16,896.47 | 18,790.50 |
| r | | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Base year ^a | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| | <i>kt CO</i> ₂ <i>eq</i> | 24.002.62 | 10 277 40 | 17 207 42 | 19 070 75 | 17.071.15 | 17 050 17 | 10 201 07 | 10.074.00 |
| 1. Energy | 24,902.63 | 24,902.63 | 18,377.40 | 17,387.43 | 18,279.75 | 17,071.15 | 17,858.17 | 18,381.27 | 19,274.66 |
| 2. Industrial processes and product use | 4,852.60 | 4,852.60 | 3,553.90 | 3,064.65 | 2,554.54 | 2,735.06 | 2,572.87 | 2,540.13 | 2,787.46 |
| 3. Agriculture | 4,766.50 | 4,766.50 | 4,617.29 | 4,131.18 | 3,890.74 | 3,627.46 | 3,486.55 | 3,405.23 | 3,487.46 |
| 4. Land Use, Land-Use Change and Forestry ^b | -5,536.67 | -5,536.67 | -7,105.31 | -7,408.89 | -7,945.77 | -7,838.52 | -8,431.47 | -8,112.65 | -7,469.59 |
| 5. Waste | 594.24 | 594.24 | 603.66 | 616.89 | 630.84 | 653.56 | 673.47 | 682.49 | 710.51 |
| 6. Other | | | | | | | | | |
| Total (including LULUCF) | 29,579.31 | 29,579.31 | 20,046.94 | 17,791.26 | 17,410.09 | 16,248.71 | 16,159.59 | 16,896.47 | 18,790.50 |

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

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

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

| | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| GREENHOUSE GAS EMISSIONS | | | | | | | | | | |
| CO ₂ emissions without net CO ₂ from LULUCF | 19,654.34 | 20,532.83 | 20,073.72 | 21,211.51 | 22,309.20 | 23,666.57 | 23,330.04 | 23,753.49 | 23,980.14 | 25,238.58 |
| CO ₂ emissions with net CO ₂ from LULUCF | 12,093.35 | 12,789.51 | 12,743.58 | 13,977.37 | 14,921.84 | 16,663.60 | 16,600.92 | 16,746.51 | 17,131.30 | 18,887.63 |
| CH ₄ emissions without CH ₄ from LULUCF | 4,574.82 | 4,435.26 | 4,359.53 | 4,302.17 | 4,285.11 | 4,257.84 | 4,288.56 | 4,153.50 | 4,272.22 | 4,238.49 |
| CH ₄ emissions with CH ₄ from LULUCF | 4,619.94 | 4,441.17 | 4,456.44 | 4,321.17 | 4,291.50 | 4,297.40 | 4,291.47 | 4,156.24 | 4,278.28 | 4,270.26 |
| N ₂ O emissions without N ₂ O from LULUCF | 2,061.88 | 2,270.43 | 2,395.00 | 2,381.82 | 2,292.65 | 2,173.88 | 2,467.30 | 2,423.13 | 2,344.61 | 2,423.51 |
| N ₂ O emissions with N ₂ O from LULUCF | 2,097.26 | 2,278.24 | 2,466.14 | 2,399.16 | 2,301.25 | 2,206.05 | 2,474.70 | 2,430.75 | 2,354.94 | 2,451.99 |
| HFCs | 139.06 | 166.70 | 199.21 | 224.96 | 261.93 | 304.77 | 347.89 | 386.12 | 422.70 | 469.51 |
| PFCs | NO | NC |
| Unspecified mix of HFCs and PFCs | NO | NC |
| SF ₆ | 11.99 | 11.99 | 11.62 | 11.69 | 12.01 | 12.28 | 12.57 | 13.03 | 13.01 | 13.05 |
| NF3 | NO | NC |
| Total (without LULUCF) | 26,442.09 | 27,417.21 | 27,039.08 | 28,132.15 | 29,160.89 | 30,415.34 | 30,446.35 | 30,729.27 | 31,032.68 | 32,383.15 |
| Total (with LULUCF) | 18,961.59 | 19,687.62 | 19,876.99 | 20,934.36 | 21,788.53 | 23,484.09 | 23,727.54 | 23,732.64 | 24,200.23 | 26,092.44 |
| Total (without LULUCF, with indirect) | 26,442.09 | 27,417.21 | 27,039.08 | 28,132.15 | 29,160.89 | 30,415.34 | 30,446.35 | 30,729.27 | 31,032.68 | 32,383.15 |
| Total (with LULUCF, with indirect) | 18,961.59 | 19,687.62 | 19,876.99 | 20,934.36 | 21,788.53 | 23,484.09 | 23,727.54 | 23,732.64 | 24,200.23 | 26,092.44 |
| | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | | | 2000 | 2001 | 2002 | 2002 | 2001 | 2000 | 2000 | 2007 |
| 1. Energy | 19,928.93 | 20,371.09 | 19,739.09 | 20,737.32 | 21,888.91 | 23,220.31 | 22,647.89 | 22,953.63 | 23,160.52 | 24,365.81 |
| 2. Industrial processes and product use | 2,548.27 | 3,027.51 | 3,291.57 | 3,307.97 | 3,278.44 | 3,333.13 | 3,725.83 | 3,776.88 | 3,937.39 | 4,112.71 |
| 3. Agriculture | 3,238.47 | 3,253.04 | 3,208.67 | 3,270.34 | 3,140.60 | 2,976.42 | 3,144.30 | 3,088.88 | 2,936.96 | 2,831.1 |
| 4. Land Use, Land-Use Change and Forestry ^b | -7,480.49 | -7,729.60 | -7,162.09 | -7,197.80 | -7,372.36 | -6,931.24 | -6,718.80 | -6,996.63 | -6,832.45 | -6,290.70 |
| 5. Waste | 726.42 | 765.56 | 799.76 | 816.53 | 852.94 | 885.47 | 928.32 | 909.89 | 997.82 | 1,073.51 |
| 6. Other | | | | | | | | | | |
| Total (including LULUCF) | 18,961.59 | 19,687.62 | 19,876.99 | 20,934.36 | 21,788.53 | 23,484.09 | 23,727.54 | 23,732.64 | 24,200.23 | 26,092.44 |

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

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

| GREENHOUSE GAS EMISSIONS | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Change from base to latest reported year |
|---|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | | | | | | (%) |
| CO ₂ emissions without net CO ₂ from LULUCF | 24,024.90 | 22,241.22 | 21,432.05 | 20,866.49 | 19,022.78 | 18,620.85 | -22.65 |
| CO ₂ emissions with net CO ₂ from LULUCF | 17,594.45 | 15,720.67 | 15,160.49 | 15,637.40 | 13,911.07 | 13,481.96 | -27.25 |
| CH ₄ emissions without CH ₄ from LULUCF | 4,150.28 | 4,094.73 | 4,036.71 | 3,914.58 | 3,688.94 | 3,581.00 | -48.50 |
| CH ₄ emissions with CH ₄ from LULUCF | 4,159.86 | 4,099.83 | 4,038.47 | 3,933.20 | 3,727.82 | 3,582.93 | -48.48 |
| N ₂ O emissions without N ₂ O from LULUCF | 2,451.74 | 2,223.46 | 2,304.36 | 2,365.71 | 2,219.17 | 1,706.58 | -39.87 |
| N ₂ O emissions with N ₂ O from LULUCF | 2,465.59 | 2,234.63 | 2,313.81 | 2,388.40 | 2,255.63 | 1,718.35 | -39.57 |
| HFCs | 490.33 | 495.65 | 543.95 | 563.13 | 564.96 | 577.71 | |
| PFCs | NO | 0.26 | 0.03 | 0.02 | 0.03 | 0.06 | -100.00 |
| Unspecified mix of HFCs and PFCs | NO | NO | NO | NO | NO | NO | |
| SF ₆ | 11.98 | 8.03 | 8.95 | 9.37 | 9.21 | 6.58 | -37.03 |
| NF3 | NO | NO | NO | NO | NO | NO | |
| Total (without LULUCF) | 31,129.23 | 29,063.35 | 28,326.05 | 27,719.29 | 25,505.09 | 24,492.78 | -30.25 |
| Total (with LULUCF) | 24,722.21 | 22,559.06 | 22,065.71 | 22,531.52 | 20,468.71 | 19,367.59 | -34.52 |
| Total (without LULUCF, with indirect) | 31,129.23 | 29,063.35 | 28,326.05 | 27,719.29 | 25,505.09 | 24,492.78 | -30.25 |
| Total (with LULUCF, with indirect) | 24,722.21 | 22,559.06 | 22,065.71 | 22,531.52 | 20,468.71 | 19,367.59 | -34.52 |
| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Change from base to latest reported year |
| | | | | | | | (%) |
| 1. Energy | 23,119.75 | 21,894.64 | 21,035.31 | 20,559.37 | 18,685.67 | 18,122.71 | -27.23 |
| 2. Industrial processes and product use | 4,073.01 | 3,350.43 | 3,591.27 | 3,361.89 | 3,092.03 | 2,812.59 | -42.04 |
| 3. Agriculture | 2,789.11 | 2,633.75 | 2,526.14 | 2,587.06 | 2,512.58 | 2,317.95 | -51.37 |

-6,407.02

1,147.35

24,722.21

-6,504.29

1,184.53

22,559.06

-6,260.34

1,173.33

22,065.71

-5,187.77

1,210.97

22,531.52

-5,036.37

1,214.81

20,468.71

-5,125.18

1,239.53

19,367.59

-7.43

108.59

-34.52

Total (including LULUCF)

5. Waste

6. Other

Notes:

(1) Further detailed information could be found in the common reporting format tables of the Party's greenhouse gas inventory, namely "Emission trends (CO_2)", "Emission trends (CH_4)", "Emission trends (N_2O)" and "Emission trends (HFCs, PFCs and SF₆)", which is included in an annex to this biennial report.

(2) 2011 is the latest reported inventory year.

4. Land Use, Land-Use Change and Forestry^b

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

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

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

 $^{\rm b}\,$ Includes net CO_2, CH_4 and N_2O from LULUCF.

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Base year ^a | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | kt | 21 210 16 | 15 501 70 | 14.926.41 | 15 ((0 54 | 14 690 04 | 15 402 70 | 16 020 02 | 16.016.62 |
| 1. Energy | 21,219.16 | 21,219.16 | 15,591.70 | 14,836.41 | 15,660.54 | 14,680.04 | 15,492.70 | 16,039.92 | 16,916.62 |
| A. Fuel combustion (sectoral approach) | 20,248.04 | 20,248.04 | 14,708.90 | 13,962.33 | 14,572.22 | 13,704.59 | 14,381.82 | 14,969.77 | 15,896.54 |
| 1. Energy industries | 7,166.75 | 7,166.75 | 4,835.34 | 5,499.07 | 6,030.66 | 4,694.84 | 5,226.83 | 5,054.87 | 5,557.44 |
| 2. Manufacturing industries and construction | 5,501.67 | 5,501.67 | 3,919.00 | 3,114.89 | 3,031.80 | 3,202.34 | 2,954.66 | 2,998.35 | 3,026.43 |
| 3. Transport | 3,936.62 | 3,936.62 | 2,892.28 | 2,788.08 | 2,961.47 | 3,171.46 | 3,343.51 | 3,659.57 | 4,004.29 |
| 4. Other sectors | 3,642.99 | 3,642.99 | 3,062.28 | 2,560.29 | 2,548.29 | 2,635.95 | 2,856.82 | 3,256.98 | 3,308.37 |
| 5. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| B. Fugitive emissions from fuels | 971.12 | 971.12 | 882.80 | 874.08 | 1,088.31 | 975.45 | 1,110.88 | 1,070.15 | 1,020.08 |
| 1. Solid fuels | NO | NO | NO | NO | NO | NO | NO | NO | NC |
| 2. Oil and natural gas and other emissions from energy production | 971.12 | 971.12 | 882.80 | 874.08 | 1,088.31 | 975.45 | 1,110.88 | 1,070.15 | 1,020.08 |
| C. CO2 transport and storage | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 2. Industrial processes | 2,804.58 | 2,804.58 | 1,987.58 | 2,147.66 | 1,851.82 | 1,977.89 | 1,786.96 | 1,777.85 | 1,965.56 |
| A. Mineral industry | 1,280.88 | 1,280.88 | 863.47 | 938.79 | 804.89 | 976.59 | 759.97 | 844.58 | 954.10 |
| B. Chemical industry | 771.87 | 771.87 | 682.27 | 850.24 | 729.48 | 749.67 | 770.84 | 712.81 | 756.12 |
| C. Metal industry | 338.56 | 338.56 | 273.84 | 118.53 | 58.10 | 80.11 | 38.37 | 19.30 | 40.11 |
| D. Non-energy products from fuels and solvent use | 413.27 | 413.27 | 167.99 | 240.10 | 259.34 | 171.51 | 217.78 | 201.16 | 215.23 |
| E. Electronic industry | | | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | | | |
| G. Other product manufacture and use | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| H. Other | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3. Agriculture | 50.02 | 50.02 | 50.95 | 65.51 | 52.14 | 47.57 | 46.29 | 52.44 | 68.39 |
| A. Enteric fermentation | | | | | | | | | |
| B. Manure management | | | | | | | | | |
| C. Rice cultivation | | | | | | | | | |
| D. Agricultural soils | | | | | | | | | |
| E. Prescribed burning of savannas | | | | | | | | | |
| F. Field burning of agricultural residues | | | | | | | | | |
| G. Liming | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| H. Urea application | 50.02 | 50.02 | 50.95 | 65.51 | 52.14 | 47.57 | 46.29 | 52.44 | 68.39 |
| I. Other carbon-containing fertilizers | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| J. Other | | | | | | | | | |
| 4. Land Use, Land-Use Change and Forestry | -5,543.42 | -5,543.42 | -7,115.18 | -7,439.02 | -8,007.70 | -7,861.98 | -8,448.06 | -8,144.37 | -7,502.95 |
| A. Forest land | -5,628.11 | -5,628.11 | -7,758.27 | -8,186.62 | -8,528.92 | -8,281.22 | -8,814.07 | -8,565.32 | -7,868.69 |
| B. Cropland | 217.98 | 217.98 | 214.29 | 221.14 | 208.74 | 224.35 | 229.48 | 226.36 | 243.47 |
| C. Grassland | -103.97 | -103.97 | -76.80 | -83.63 | -86.55 | -94.08 | -99.94 | -104.68 | -113.41 |
| D. Wetlands | 30.00 | 30.00 | 30.17 | 31.89 | 33.60 | 35.32 | 37.04 | 38.76 | 40.47 |
| E. Settlements | 240.31 | 240.31 | 250.75 | 251.11 | 251.47 | 260.78 | 252.79 | 252.84 | 254.85 |
| F. Other land | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Harvested wood products | -299.62 | -299.62 | 224.69 | 327.10 | 113.96 | -7.13 | -53.35 | 7.68 | -59.65 |
| H. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 5. Waste | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 1.82 |
| A. Solid waste disposal | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| B. Biological treatment of solid waste | | | | | | | | | |
| C. Incineration and open burning of waste | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 1.82 |
| D. Waste water treatment and discharge | | | | | | | | | |
| E. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 6. Other (as specified in the summary table in CRF) | | | | | | | | | |
| Memo items: | | | | | | | | | |
| T / / II I | 100.00 | 102.00 | 60.00 | 57.00 | 140.50 | 220.05 | 201 72 | 0.00.00 | 0.00 50 |

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| International bunkers | 493.99 | 493.99 | 68.88 | 57.20 | 140.58 | 329.86 | 291.72 | 268.66 | 266.50 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Aviation | 346.76 | 346.76 | 68.88 | 57.20 | 140.58 | 190.08 | 188.64 | 177.80 | 192.09 |
| Navigation | 147.23 | 147.23 | NO | NO | NO | 139.78 | 103.08 | 90.86 | 74.41 |
| Multilateral operations | С | С | C | C | C | C | С | С | С |
| CO2 emissions from biomass | 2,540.16 | 2,540.16 | 1,751.68 | 1,520.96 | 1,447.04 | 1,462.72 | 1,514.24 | 1,807.68 | 1,869.84 |
| CO2 captured | NO |
| Long-term storage of C in waste disposal sites | NE |
| Indirect N2O | | | | | | | | | |
| Indirect CO2 (3) | NA, NO |
| Total CO2 equivalent emissions without land use, land-use change and forestry | 35,115.98 | 35,115.98 | 27,152.25 | 25,200.15 | 25,355.86 | 24,087.23 | 24,591.06 | 25,009.12 | 26,260.09 |
| Total CO2 equivalent emissions with land use, land-use change and forestry | 29,579.31 | 29,579.31 | 20,046.94 | 17,791.26 | 17,410.09 | 16,248.71 | 16,159.59 | 16,896.47 | 18,790.50 |
| Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry | 24,074.30 | 24,074.30 | 17,630.76 | 17,050.12 | 17,565.03 | 16,706.04 | 17,326.48 | 17,870.74 | 18,952.39 |
| Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry | 18,530.88 | 18,530.88 | 10,515.59 | 9,611.10 | 9,557.33 | 8,844.06 | 8,878.42 | 9,726.37 | 11,449.44 |

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

Table 1 (a) Emission trends (CO₂) (Sheet 2 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|--|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1. Energy | 17,748.42 | 18,258.06 | 17,657.09 | 18,661.04 | 19,823.80 | 21,150.61 | 20,577.33 | 20,964.40 | 21,063.78 | 22,250.01 |
| A. Fuel combustion (sectoral approach) | 16,833.30 | 17,368.96 | 16,718.48 | 17,656.47 | 19,823.80 | 20,173.62 | 19,555.45 | 19,963.05 | 20,026.59 | 21,242.62 |
| 1. Energy industries | 6,212.63 | 6,439.06 | 5,816.84 | 6,381.66 | 7,273.79 | 7,946.52 | 6,830.91 | 6,853.44 | 6,674.57 | 7,806.63 |
| 2. Manufacturing industries and construction | 3,313.18 | 2,980.25 | 3,103.13 | 3,196.99 | 3,057.13 | 3,136.78 | 3,583.00 | 3,723.73 | 3,855.12 | 3,853.05 |
| 3. Transport | 4,139.75 | 4,370.68 | 4,380.15 | 4,442.09 | 4,744.72 | 5,137.72 | 5,276.57 | 5,487.76 | 5,838.23 | 6,255.70 |
| 4. Other sectors | 3,167.75 | 3,578.95 | 3,418.37 | 3,635.73 | 3,723.03 | 3,952.60 | 3,864.98 | 3,898.12 | 3,658.66 | 3,327.24 |
| 5. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| B. Fugitive emissions from fuels | 915.12 | 889.11 | 938.61 | 1,004.58 | 1,025.12 | 976.98 | 1,021.88 | 1,001.35 | 1,037.20 | 1,007.39 |
| 1. Solid fuels | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 2. Oil and natural gas and other emissions from energy production | 915.12 | 889.11 | 938.61 | 1,004.58 | 1,025.12 | 976.98 | 1,021.88 | 1,001.35 | 1,037.20 | 1,007.39 |
| C. CO2 transport and storage | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 2. Industrial processes | 1,857.97 | 2,219.90 | 2,349.61 | 2,451.68 | 2,400.86 | 2,443.37 | 2,676.41 | 2,703.47 | 2,834.95 | 2,898.59 |
| A. Mineral industry | 1,027.37 | 1,284.91 | 1,423.08 | 1,643.76 | 1,638.10 | 1,619.95 | 1,731.21 | 1,785.37 | 1,917.28 | 1,948.84 |
| B. Chemical industry | 606.29 | 722.89 | 724.36 | 633.80 | 562.20 | 577.51 | 664.88 | 664.65 | 662.17 | 693.88 |
| C. Metal industry | 28.85 | 26.86 | 26.78 | 6.56 | 5.86 | 9.88 | 15.36 | 11.81 | 13.85 | 13.10 |
| D. Non-energy products from fuels and solvent use | 195.46 | 185.24 | 175.40 | 167.57 | 194.71 | 236.02 | 264.96 | 241.64 | 241.65 | 242.78 |
| E. Electronic industry | | | | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | | | | |
| G. Other product manufacture and use | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| H. Other | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3. Agriculture | 44.25 | 50.49 | 60.87 | 92.09 | 80.76 | 71.79 | 75.94 | 85.46 | 80.67 | 89.32 |
| A. Enteric fermentation | | | | | | | | | | |
| B. Manure management | | | | | | | | | | |
| C. Rice cultivation | | | | | | | | | | |
| D. Agricultural soils | | | | | | | | | | |
| E. Prescribed burning of savannas | | | | | | | | | | |
| F. Field burning of agricultural residues | | | | | | | | | | |
| G. Liming | NO | NO | NO | NO | NO | NO | NO | 14.49 | 17.48 | 16.60 |
| H. Urea application | 44.25 | 50.49 | 60.87 | 92.09 | 80.76 | 71.79 | 75.94 | 70.97 | 63.19 | 72.72 |
| I. Other carbon-containing fertilizers | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| J. Other | | | | | | | | | | |
| 4. Land Use, Land-Use Change and Forestry | -7,560.99 | -7,743.32 | -7,330.15 | -7,234.14 | -7,387.35 | -7,002.97 | -6,729.12 | -7,006.98 | -6,848.84 | -6,350.95 |
| A. Forest land | -7,856.58 | -7,986.62 | -7,683.24 | -7,672.26 | -7,791.63 | -7,462.63 | -7,211.81 | -7,291.19 | -7,108.06 | -6,550.79 |
| B. Cropland | 256.21 | 243.55 | 294.42 | 322.75 | 305.38 | 293.71 | 279.75 | 225.94 | 201.63 | 113.17 |
| C. Grassland | -117.99 | -121.64 | -110.96 | -148.78 | -145.24 | -143.30 | -137.97 | -91.05 | -103.91 | -88.74 |
| D. Wetlands | 42.19 | 43.91 | 45.63 | 36.33 | 34.40 | 32.46 | 30.53 | 28.59 | 26.66 | 24.72 |
| E. Settlements | 271.45 | 260.85 | 289.31 | 330.11 | 364.64 | 363.97 | 404.34 | 413.93 | 417.75 | 435.50 |
| F. Other land | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Harvested wood products | -156.26 | -183.37 | -165.29 | -102.28 | -154.89 | -87.19 | -93.96 | -293.19 | -282.92 | -284.81 |
| H. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 5. Waste | 3.70 | 4.38 | 6.15 | 6.68 | 3.78 | 0.80 | 0.35 | 0.16 | 0.74 | 0.65 |
| A. Solid waste disposal | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| B. Biological treatment of solid waste | | | | | | | | | | |
| C. Incineration and open burning of waste | 3.70 | 4.38 | 6.15 | 6.68 | 3.78 | 0.80 | 0.35 | 0.16 | 0.74 | 0.65 |
| D. Waste water treatment and discharge | | | | | | | | | | |
| E. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 6. Other (as specified in the summary table in CRF) | | | | | | | | | | |
| Memo items: | | | | | | | | | | |
| International bunkers | 290.77 | 265.95 | 228.73 | 261.50 | 238.64 | 232.48 | 263.12 | 308.25 | 293.77 | 316.13 |
| Aviation | 208.92 | 199.58 | 171.11 | 171.19 | 164.63 | 163.09 | 189.29 | 228.43 | 232.14 | 239.68 |
| Navigation | 81.85 | 66.37 | 57.62 | 90.31 | 74.01 | 69.39 | 73.83 | 79.82 | 61.63 | 76.45 |
| Multilateral operations | С | С | С | С | С | С | С | С | С | С |
| CO2 emissions from biomass | 1,750.22 | 1,559.35 | 1,751.41 | 1,432.17 | 1,450.59 | 1,864.85 | 1,861.07 | 1,723.86 | 1,778.82 | 1,563.68 |
| CO2 captured | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Long-term storage of C in waste disposal sites | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE |
| Indirect N2O | | | | | | | | | | |
| Indirect CO2 (3) | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| Total CO2 equivalent emissions without land use, land-use change and forestry | 26,442.09 | 27,417.21 | 27,039.08 | 28,132.15 | 29,160.89 | 30,415.34 | 30,446.35 | 30,729.27 | 31,032.68 | 32,383.15 |
| Total CO2 equivalent emissions with land use, land-use change and forestry | 18,961.59 | 19,687.62 | 19,876.99 | 20,934.36 | 21,788.53 | 23,484.09 | 23,727.54 | 23,732.64 | 24,200.23 | 26,092.44 |
| Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change | 19,654.34 | 20,532.83 | 20,073.72 | 21,211.51 | 22,309.20 | 23,666.57 | 23,330.04 | 23,753.49 | 23,980.14 | 25,238.58 |
| and forestry Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and | 12,093.35 | 12,789.51 | 12,743.58 | 13,977.37 | 14,921.84 | 16,663.60 | 16,600.92 | 16,746.51 | 17,131.30 | 18,887.63 |
| forestry | 12,075.55 | 12,709.51 | 12,7 - 5.50 | 13,777.37 | 17,221.07 | 10,003.00 | 10,000.72 | 10,770.51 | 17,151.50 | 10,007.05 |

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

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Change from base to latest reported year |
|---|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | | | | | | % |
| 1. Energy | 21,103.70 | 19,946.87 | 19,112.82 | 18,767.45 | 17,103.43 | 16,605.25 | -21.74 |
| A. Fuel combustion (sectoral approach) | 20,202.28 | 19,115.65 | 18,317.65 | 17,977.62 | 16,436.54 | 15,949.64 | -21.23 |
| 1. Energy industries | 6,789.87 | 6,403.19 | 5,904.99 | 6,152.17 | 5,499.87 | 5,109.51 | -28.71 |
| 2. Manufacturing industries and construction | 3,872.78 | 3,157.36 | 3,015.80 | 2,779.55 | 2,409.07 | 2,380.65 | -56.73 |
| 3. Transport | 6,097.85 | 6,100.75 | 5,890.70 | 5,764.05 | 5,585.99 | 5,679.83 | 44.28 |
| 4. Other sectors | 3,441.78 | 3,454.34 | 3,506.16 | 3,281.84 | 2,941.62 | 2,779.65 | -23.70 |
| 5. Other | NO | NO | NO | NO | NO | NC | |
| B. Fugitive emissions from fuels | 901.42 | 831.22 | 795.17 | 789.83 | 666.88 | 655.61 | -32.49 |
| 1. Solid fuels | NO | NO | NO | NO | NO | NC | |
| 2. Oil and natural gas and other emissions from energy production | 901.42 | 831.22 | 795.17 | 789.83 | 666.88 | 655.61 | -32.49 |
| C. CO2 transport and storage | NO | NO | NO | NO | NO | NC | |
| 2. Industrial processes | 2,823.93 | 2,217.23 | 2,239.13 | 2,000.68 | 1,822.81 | 1,945.57 | -30.63 |
| A. Mineral industry | 1,856.99 | 1,460.61 | 1,432.29 | 1,220.06 | 1,191.09 | 1,291.40 | 0.82 |
| B. Chemical industry | 677.48 | 524.80 | 594.74 | 571.33 | 478.93 | 485.96 | -37.04 |
| C. Metal industry | 24.15 | 11.56 | 27.55 | 29.45 | 1.76 | 16.60 | -95.10 |
| D. Non-energy products from fuels and solvent use | 265.30 | 220.27 | 184.55 | 179.84 | 151.03 | 151.60 | -63.32 |
| E. Electronic industry | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | |
| G. Other product manufacture and use | NO | NO | NO | NO | NO | NO | |
| H. Other | NA | NA | NA | NA | NA | NA | |
| 3. Agriculture | 96.60 | 76.96 | 80.05 | 98.31 | 96.45 | 69.99 | 39.92 |
| A. Enteric fermentation | | | | | | | |
| B. Manure management | | | | | | | |
| C. Rice cultivation | | | | | | | |
| D. Agricultural soils | | | | | | | |
| E. Prescribed burning of savannas | | | | | | | |
| F. Field burning of agricultural residues | | | | | | | |
| G. Liming | 20.78 | 11.92 | 13.47 | 14.45 | 9.60 | 9.60 | |
| H. Urea application | 75.83 | 65.04 | 66.58 | 83.86 | 86.85 | 60.39 | |
| I. Other carbon-containing fertilizers | NA | NA | NA | NA | NA | NA | |
| J. Other | | | | | | | |
| 4. Land Use, Land-Use Change and Forestry | -6,430.45 | -6,520.55 | -6,271.55 | -5,229.09 | -5,111.71 | -5,138.88 | |
| A. Forest land | -6,609.15 | -6,824.05 | -6,583.46 | -5,509.41 | -5,411.54 | -5,491.49 | |
| B. Cropland | 118.33 | 60.66 | 135.03 | 114.66 | 191.56 | 160.55 | |
| C. Grassland | -146.85 | -98.32 | -110.91 | -94.55 | -134.54 | -103.50 | |
| D. Wetlands | 22.79 | 20.86 | 18.92 | 17.32 | 15.73 | 14.13 | |
| E. Settlements | 474.00 | 482.95 | 502.38 | 501.34 | 534.71 | 545.56 | |
| F. Other land | NO | NO | NO | NO | NO | NO | |
| G. Harvested wood products | -289.58 | -162.65 | -233.51 | -258.46 | -307.63 | -264.12 | |
| H. Other | NO | NO | NO | NO | NO | NO | |
| 5. Waste | 0.67 | 0.16 | 0.05 | 0.05 | 0.08 | 0.04 | |
| A. Solid waste disposal | NA, NO | |
| B. Biological treatment of solid waste | | | | | | | |
| C. Incineration and open burning of waste | 0.67 | 0.16 | 0.05 | 0.05 | 0.08 | 0.04 | -92.11 |
| D. Waste water treatment and discharge | | | | | | | |
| E. Other | NO | NO | NO | NO | NO | NO | |
| 6. Other (as specified in the summary table in CRF) | | | | | | | |
| Memo items: | | | | | | | |
| International bunkers | 335.71 | 251.31 | 264.29 | 330.90 | 262.10 | 290.71 | |
| Aviation | 268.20 | 229.46 | 244.66 | 254.92 | 262.10 | 290.71 | |
| Navigation | 67.50 | 21.85 | 19.64 | 75.97 | NO | NO | |
| Multilateral operations | С | С | С | С | C | С | |
| CO2 emissions from biomass | 1,555.91 | 1,709.23 | 1,872.38 | 2,129.98 | 2,402.65 | 2,249.66 | |
| CO2 captured | NO | NO | NO | NO | NO | NO | |
| Long-term storage of C in waste disposal sites | NE | NE | NE | NE | NE | NE | |
| Indirect N2O | | | | | | | |
| Indirect CO2 (3) | NA, NO | |
| Total CO2 equivalent emissions without land use, land-use change and forestry | 31,129.23 | 29,063.35 | 28,326.05 | 27,719.29 | 25,505.09 | 24,492.78 | |
| Total CO2 equivalent emissions with land use, land-use change and forestry | 24,722.21 | 22,559.06 | 22,065.71 | 22,531.52 | 20,468.71 | 19,367.59 | |
| Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry | 24,024.90 | 22,241.22 | 21,432.05 | 20,866.49 | 19,022.78 | 18,620.85 | |
| Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and | 17,594.45 | 15,720.67 | 15,160.49 | 15,637.40 | 13,911.07 | 13,481.96 | -27.25 |

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

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

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

Custom Footnotes

Data on Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry and Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry are not correcty transferred from CRF table. For correct data please use last National Inventory Report of Republic of Craotia (NIR 2015) submitted to UNFCCC on 6 November 2015

Data onTotal CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry and Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry are not correctly transferred from CRF table. Forcorrect data please use last National Inventory Report of Republic of Croatia(NIR 2015) submitted to UNFCCC on 6 November 2015

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Base year ^a | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| | kt | | | | | | | | |
| 1. Energy | 142.51 | 142.51 | 107.84 | 98.82 | 101.18 | 92.13 | 91.27 | 89.02 | 89.14 |
| A. Fuel combustion (sectoral approach) | 9.68 | 9.68 | 6.37 | 5.22 | 4.94 | 5.15 | 5.32 | 6.25 | 6.32 |
| 1. Energy industries | 0.22 | 0.22 | 0.16 | 0.18 | 0.20 | 0.13 | 0.16 | 0.16 | 0.18 |
| 2. Manufacturing industries and construction | 0.39 | 0.39 | 0.28 | 0.22 | 0.21 | 0.19 | 0.19 | 0.19 | 0.21 |
| 3. Transport | 1.65 | 1.65 | 1.24 | 1.11 | 1.09 | 1.18 | 1.24 | 1.33 | 1.41 |
| 4. Other sectors | 7.43 | 7.43 | 4.69 | 3.71 | 3.45 | 3.65 | 3.73 | 4.57 | 4.53 |
| 5. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| B. Fugitive emissions from fuels | 132.83 | 132.83 | 101.47 | 93.60 | 96.23 | 86.97 | 85.95 | 82.76 | 82.82 |
| 1. Solid fuels | 2.39 | 2.39 | 2.13 | 1.65 | 1.58 | 1.42 | 1.13 | 0.91 | 0.67 |
| 2. Oil and natural gas and other emissions from energy production | 130.44 | 130.44 | 99.34 | 91.95 | 94.65 | 85.55 | 84.82 | 81.85 | 82.15 |
| C. CO2 transport and storage | | | | | | | | | |
| 2. Industrial processes | 0.38 | 0.38 | 0.36 | 0.31 | 0.26 | 0.27 | 0.24 | 0.21 | 0.23 |
| A. Mineral industry | | | | | | | | | |
| B. Chemical industry | 0.23 | 0.23 | 0.21 | 0.21 | 0.21 | 0.20 | 0.21 | 0.20 | 0.20 |
| C. Metal industry | 0.16 | 0.16 | 0.15 | 0.10 | 0.04 | 0.07 | 0.03 | 0.01 | 0.03 |
| D. Non-energy products from fuels and solvent use | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| E. Electronic industry | | | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | | | |
| G. Other product manufacture and use | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| H. Other | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3. Agriculture | 114.16 | 114.16 | 109.62 | 96.09 | 94.62 | 86.49 | 82.53 | 79.22 | 76.15 |
| A. Enteric fermentation | 100.04 | 100.04 | 96.05 | 84.47 | 82.96 | 75.59 | 72.26 | 69.30 | 66.57 |
| B. Manure management | 14.11 | 14.11 | 13.57 | 11.62 | 11.66 | 10.90 | 10.28 | 9.93 | 9.58 |
| 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 | | | | | | | | | |
| F. Field burning of agricultural residues | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Liming | | | | | | | | | |
| H. Urea application | | | | | | | | | |
| I. Other carbon-containing fertilizers | | | | | | | | | |
| J. Other | | | | | | | | | |
| 4. Land use, land-use change and forestry | 0.05 | 0.05 | 0.13 | 0.61 | 1.38 | 0.46 | 0.30 | 0.66 | 0.71 |
| A. Forest land | 0.04 | 0.04 | 0.12 | 0.55 | 1.31 | 0.43 | 0.28 | 0.61 | 0.65 |
| B. Cropland | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| C. Grassland | 0.00 | 0.00 | 0.01 | 0.06 | 0.06 | 0.03 | 0.02 | 0.06 | 0.05 |
| D. Wetlands | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| E. Settlements | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| F. Other land | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Harvested wood products | | | | | | | | | |
| H. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 5. Waste | 21.07 | 21.07 | 21.59 | 22.11 | 22.66 | 23.46 | 24.03 | 24.53 | 25.58 |
| A. Solid waste disposal | 11.55 | 11.55 | 12.09 | 12.63 | 13.20 | 13.82 | 14.54 | 15.32 | 16.20 |
| B. Biological treatment of solid waste | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE |
| C. Incineration and open burning of waste | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| D. Waste water treatment and discharge | 9.51 | 9.51 | 9.50 | 9.48 | 9.46 | 9.65 | 9.50 | 9.21 | 9.37 |
| E. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 6. Other (as specified in the summary table in CRF) | 1.0 | 1,0 | 1,0 | 1,0 | 1.0 | 1,0 | 1,0 | 1,0 | |
| Total CH4 emissions without CH4 from LULUCF | 278.12 | 278.12 | 239.41 | 217.32 | 218.71 | 202.35 | 198.08 | 192.98 | 191.09 |
| Total CH4 emissions with CH4 from LULUCF | 278.16 | 278.12 | 239.53 | 217.92 | 220.09 | 202.33 | 198.38 | 192.98 | 191.79 |
| Memo items: | 270.10 | 270.10 | 200.00 | 211.75 | 220.07 | 202.01 | 170.00 | 175105 | 171.17 |
| | 0.02 | 0.02 | 0.00 | 0.00 | 0.01 | | | 0.02 | 0.01 |

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| International bunkers | 0.03 | 0.03 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.01 |
|--|------|------|------|------|------|------|------|------|------|
| Aviation | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Navigation | 0.01 | 0.01 | NO | NO | NO | 0.01 | 0.01 | 0.01 | 0.01 |
| Multilateral operations | C | C | C | С | C | C | C | С | С |
| CO2 emissions from biomass | | | | | | | | | |
| CO2 captured | | | | | | | | | |
| Long-term storage of C in waste disposal sites | | | | | | | | | |
| Indirect N2O | | | | | | | | | |
| Indirect CO2 (3) | | | | | | | | | |

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

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|---|--------|------------|------------|--------|------------|------------|------------|------------|--------|------------|
| | 02.01 | 70.55 | 76.04 | 76.06 | 77.05 | 77.01 | 75.01 | 74.64 | 70 74 | 70.00 |
| 1. Energy | 83.01 | 78.55 | 76.94 | 76.96 | 77.95 | 77.81 | 75.91 | 74.64 | 78.76 | 79.29 |
| A. Fuel combustion (sectoral approach) | 6.12 | 5.91 | 6.29 | 5.12 | 5.17 | 6.17 | 5.96 | 5.68 | 5.65 | 5.01 |
| 1. Energy industries | 0.21 | 0.22 | 0.16 | 0.18 | 0.20 | 0.23 | 0.19 | 0.18 | 0.19 | 0.22 |
| 2. Manufacturing industries and construction | 0.21 | 0.17 | 0.18 | 0.18 | 0.17 | 0.20 | 0.24 | 0.22 | 0.23 | 0.23 |
| 3. Transport | 1.45 | 1.48 | 1.43 | 1.22 | 1.19 | 1.14 | 1.07 | 0.98 | 0.97 | 0.93 |
| 4. Other sectors | 4.26 | 4.04 | 4.53 | 3.55 | 3.61 | 4.59 | 4.45 | 4.30 | 4.26 | 3.62 |
| 5. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| B. Fugitive emissions from fuels | 76.88 | 72.65 | 70.65 | 71.84 | 72.78 | 71.64 | 69.95 | 68.96 | 73.11 | 74.28 |
| 1. Solid fuels | 0.70 | 0.21 | NO | NO | NO | NO | NO | NO | NO | NO |
| 2. Oil and natural gas and other emissions from energy production | 76.18 | 72.44 | 70.65 | 71.84 | 72.78 | 71.64 | 69.95 | 68.96 | 73.11 | 74.28 |
| C. CO2 transport and storage | | | | | | | | | | |
| 2. Industrial processes | 0.20 | 0.21 | 0.14 | 0.15 | 0.14 | 0.13 | 0.16 | 0.16 | 0.15 | 0.14 |
| A. Mineral industry | | | | | | | | | | |
| B. Chemical industry | 0.19 | 0.19 | 0.12 | 0.15 | 0.14 | 0.13 | 0.16 | 0.16 | 0.15 | 0.14 |
| C. Metal industry | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | NA, NO | NA, NO | NA, NO | NA, NO |
| D. Non-energy products from fuels and solvent use | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| E. Electronic industry | | | | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | | | | |
| G. Other product manufacture and use | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| H. Other | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3. Agriculture | 73.58 | 71.11 | 68.35 | 65.57 | 62.50 | 60.11 | 61.46 | 58.18 | 55.43 | 50.58 |
| A. Enteric fermentation | 64.28 | 61.78 | 59.51 | 56.78 | 53.97 | 51.51 | 52.43 | 49.78 | 46.63 | 42.40 |
| B. Manure management | 9.30 | 9.33 | 8.85 | 8.79 | 8.53 | 8.60 | 9.03 | 8.40 | 8.80 | 8.18 |
| 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 | | | | | | | | | | |
| F. Field burning of agricultural residues | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Liming | | | | | | | | | | |
| H. Urea application | | | | | | | | | | |
| I. Other carbon-containing fertilizers | | | | | | | | | | |
| J. Other | | | | | | | | | | |
| 4. Land use, land-use change and forestry | 1.80 | 0.24 | 3.88 | 0.76 | 0.26 | 1.58 | 0.12 | 0.11 | 0.24 | 1.27 |
| A. Forest land | 1.59 | 0.17 | 3.48 | 0.64 | 0.22 | 1.44 | 0.08 | 0.09 | 0.22 | 1.18 |
| B. Cropland | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| C. Grassland | 0.21 | 0.07 | 0.39 | 0.12 | 0.03 | 0.14 | 0.04 | 0.02 | 0.02 | 0.09 |
| D. Wetlands | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| E. Settlements | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| F. Other land | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Harvested wood products | | | | | | | | | | |
| H. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 5. Waste | 26.21 | 27.54 | 28.94 | 29.41 | 30.82 | 32.27 | 34.02 | 33.17 | 36.54 | 39.53 |
| A. Solid waste disposal | 17.13 | 18.18 | 19.24 | 20.47 | 21.85 | 23.39 | 24.82 | 24.01 | 27.14 | 29.86 |
| B. Biological treatment of solid waste | IF, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE |
| C. Incineration and open burning of waste | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| D. Waste water treatment and discharge | 9.08 | 9.36 | 9.70 | 8.94 | 8.97 | 8.88 | 9.19 | 9.16 | 9.41 | 9.67 |
| E. Other | NO | 9.30 NO | 9.70 NO | NO | 8.97 NO | 8.88 NO | 9.19 NO | 9.10 NO | NO | 9.07 NO |
| 6. Other (as specified in the summary table in CRF) | Uri | nu | no | no | NO | no | INU | no | INU | |
| Total CH4 emissions without CH4 from LULUCF | 182.99 | 177.41 | 174.38 | 172.09 | 171.40 | 170.31 | 171.54 | 166.14 | 170.89 | 169.54 |
| Total CH4 emissions without CH4 from LULUCF | 182.99 | 177.65 | 174.38 | 172.09 | 171.40 | 170.31 | 171.54 | 166.14 | 170.89 | 169.34 |
| | 104.80 | 177.03 | 1/8.20 | 172.03 | 1/1.00 | 1/1.90 | 1/1.00 | 100.23 | 1/1.15 | 170.81 |

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| Memo items: | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|
| International bunkers | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| Aviation | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Navigation | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Multilateral operations | C | C | C | C | С | C | C | C | C | C |
| CO2 emissions from biomass | | | | | | | | | | |
| CO2 captured | | | | | | | | | | |
| Long-term storage of C in waste disposal sites | | | | | | | | | | |
| Indirect N2O | | | | | | | | | | |
| Indirect CO2 (3) | | | | | | | | | | |

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

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Change from base to latest reported year |
|---|-----------|---------|--------|--------|---------|------------|---|
| | | | | | | | % |
| 1. Energy | 75.62 | 73.03 | 72.05 | 67.22 | 58.90 | 56.44 | -60.40 |
| A. Fuel combustion (sectoral approach) | 4.99 | 5.17 | 5.62 | 6.32 | 6.46 | 6.13 | -36.66 |
| 1. Energy industries | 0.19 | 0.19 | 0.17 | 0.17 | 0.16 | 0.13 | -40.60 |
| 2. Manufacturing industries and construction | 0.22 | 0.21 | 0.21 | 0.18 | 0.19 | 0.18 | -54.75 |
| 3. Transport | 0.87 | 0.81 | 0.73 | 0.67 | 0.56 | 0.55 | -66.43 |
| 4. Other sectors | 3.71 | 3.96 | 4.51 | 5.30 | 5.56 | 5.28 | -29.00 |
| 5. Other | NO | NO | NO | NO | NO | NO | |
| B. Fugitive emissions from fuels | 70.62 | 67.85 | 66.43 | 60.89 | 52.44 | 50.31 | -62.13 |
| 1. Solid fuels | NO | NO | NO | NO | NO | NO | |
| 2. Oil and natural gas and other emissions from energy production | 70.62 | 67.85 | 66.43 | 60.89 | 52.44 | 50.31 | -61.43 |
| C. CO2 transport and storage | | | | | | | |
| 2. Industrial processes | 0.14 | 0.12 | 0.12 | 0.08 | 0.01 | 0.01 | -98.41 |
| A. Mineral industry | | | | | | | |
| B. Chemical industry | 0.14 | 0.12 | 0.12 | 0.08 | 0.01 | 0.01 | -97.30 |
| C. Metal industry | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | |
| D. Non-energy products from fuels and solvent use | NA | NA | NA | NA | NA | NA | |
| E. Electronic industry | | | | | | | |
| F. Product uses as ODS substitutes | _ | | | | | | |
| G. Other product manufacture and use | NO | NO | NO | NO | NO | NO | |
| H. Other | NA | NA | NA | NA | NA | NA | |
| 3. Agriculture | 47.83 | 46.76 | 45.69 | 44.23 | 43.42 | 40.71 | |
| A. Enteric fermentation | 40.15 | 38.94 | 37.99 | 36.71 | 36.11 | 33.59 | |
| B. Manure management | 7.68 | 7.82 | 7.70 | 7.52 | 7.31 | 7.11 | |
| C. Rice cultivation | NO | NO | NO | NO | NO | 7.11 NO | |
| D. Agricultural soils | NO | NO | NO | NO | NO | NA | |
| | INA | INA | INA | INA | INA | INA | • |
| E. Prescribed burning of savannas | NO | NO | NO | NO | NO | NO | |
| F. Field burning of agricultural residues | NO | NO | NO | NO | NO | NO | |
| G. Liming | _ | | | | | | |
| H. Urea application | _ | | | | | | |
| I. Other carbon-containing fertilizers | | | | | | | |
| J. Other | | 0.00 | 0.07 | 0.77 | | 0.00 | |
| 4. Land use, land-use change and forestry | 0.38 | 0.20 | 0.07 | 0.75 | 1.56 | 0.08 | |
| A. Forest land | 0.35 | 0.19 | 0.07 | 0.61 | 1.44 | 0.06 | |
| B. Cropland | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | |
| C. Grassland | 0.04 | 0.01 | 0.00 | 0.14 | 0.11 | 0.02 | |
| D. Wetlands | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | |
| E. Settlements | NO | NO | NO | NO | NO | NO | |
| F. Other land | NO | NO | NO | NO | NO | NO | |
| G. Harvested wood products | | | | | | | |
| H. Other | NO | NO | NO | NO | NO | NO | |
| 5. Waste | 42.43 | 43.87 | 43.61 | 45.06 | 45.23 | 46.09 | |
| A. Solid waste disposal | 32.87 | 35.57 | 35.25 | 36.79 | 37.50 | 37.89 | |
| B. Biological treatment of solid waste | IE, NE | IE, NE | IE, NE | IE, NE | IE, NE | 0.18 | |
| C. Incineration and open burning of waste | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | |
| D. Waste water treatment and discharge | 9.57 | 8.30 | 8.36 | 8.27 | 7.73 | 8.02 | -15.74 |
| E. Other | NO | NO | NO | NO | NO | NO | |
| 6. Other (as specified in the summary table in CRF) | | | | | | | |
| Total CH4 emissions without CH4 from LULUCF | 166.01 | 163.79 | 161.47 | 156.58 | 147.56 | 143.24 | -48.50 |
| | 1 4 4 9 9 | 1 12 00 | | 157.00 | 1 10 11 | 1 4 2 2 2 | 10.10 |

| Total CH4 emissions with CH4 from LULUCF | 166.39 | 163.99 | 161.54 | 157.33 | 149.11 | 143.32 | -48.48 |
|--|--------|--------|--------|--------|--------|--------|--------|
| Memo items: | | | | | | | |
| International bunkers | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.03 | -9.65 |
| Aviation | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 74.53 |
| Navigation | 0.01 | 0.00 | 0.00 | 0.01 | NO | NO | |
| Multilateral operations | C | C | C | C | C | C | |
| CO2 emissions from biomass | | | | | | | |
| CO2 captured | | | | | | | |
| Long-term storage of C in waste disposal sites | | | | | | | |
| Indirect N2O | | | | | | | |
| Indirect CO2 (3) | | | | | | | |

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

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

Custom Footnotes

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Base year ^a | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---|------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1. Energy | 0.41 | 0.41 | 0.30 | 0.27 | 0.30 | 0.30 | 0.28 | 0.39 | 0.43 |
| A. Fuel combustion (sectoral approach) | 0.40 | 0.40 | 0.30 | 0.27 | 0.30 | 0.29 | 0.28 | 0.39 | 0.43 |
| 1. Energy industries | 0.06 | | 0.04 | 0.05 | 0.06 | 0.04 | 0.04 | 0.04 | 0.05 |
| 2. Manufacturing industries and construction | 0.06 | | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 3. Transport | 0.18 | | 0.15 | 0.13 | 0.16 | 0.17 | 0.15 | 0.24 | 0.28 |
| 4. Other sectors | 0.10 | | 0.07 | 0.06 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 |
| 5. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| B. Fugitive emissions from fuels | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1. Solid fuels | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA |
| 2. Oil and natural gas and other emissions from energy production | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| C. CO2 transport and storage | | | | | | | | | |
| 2. Industrial processes | 2.64 | 2.64 | 2.34 | 3.02 | 2.30 | 2.48 | 2.39 | 2.23 | 2.34 |
| A. Mineral industry | | | | | | | | | |
| B. Chemical industry | 2.53 | 2.53 | 2.22 | 2.90 | 2.19 | 2.37 | 2.28 | 2.12 | 2.23 |
| C. Metal industry | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| D. Non-energy products from fuels and solvent use | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| E. Electronic industry | | | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | | | |
| G. Other product manufacture and use | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| H. Other | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3. Agriculture | 6.25 | 6.25 | 6.13 | 5.58 | 4.94 | 4.76 | 4.62 | 4.60 | 5.09 |
| A. Enteric fermentation | | | | | | | | | |
| B. Manure management | 1.09 | 1.09 | 1.04 | 0.85 | 0.86 | 0.78 | 0.75 | 0.72 | 0.67 |
| C. Rice cultivation | | | | | | | | | |
| D. Agricultural soils | 5.16 | 5.16 | 5.09 | 4.73 | 4.08 | 3.97 | 3.87 | 3.89 | 4.41 |
| E. Prescribed burning of savannas | | | | | | | | | |
| F. Field burning of agricultural residues | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Liming | | | | | | | | | |
| H. Urea application | | | | | | | | | |
| I. Other carbon containing fertlizers | | | | | | | | | |
| J. Other | | | | | | | | | |
| 4. Land use, land-use change and forestry | 0.02 | 0.02 | 0.02 | 0.05 | 0.09 | 0.04 | 0.03 | 0.05 | 0.05 |
| A. Forest land | 0.00 | 0.00 | 0.01 | 0.03 | 0.07 | 0.02 | 0.02 | 0.03 | 0.04 |
| B. Cropland | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| C. Grassland | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.00 |
| D. Wetlands | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| E. Settlements | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| F. Other land | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Harvested wood products | | | | | | | | | |
| H. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 5. Waste | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.22 | 0.24 | 0.23 | 0.23 |
| A. Solid waste disposal | | | | | | | | | |
| B. Biological treatment of solid waste | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA |
| C. Incineration and open burning of waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| D. Waste water treatment and discharge | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.22 | 0.24 | 0.23 | 0.23 |
| E. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 6. Other (as specified in the summary table in CRF) | | | | | | | | | |
| Total direct N2O emissions without N2O from LULUCF | 9.52 | 9.52 | 8.98 | 9.08 | 7.76 | 7.76 | 7.53 | 7.46 | 8.10 |
| Total direct N2O emissions with N2O from LULUCF | 9.54 | 9.54 | 9.00 | 9.13 | 7.85 | 7.80 | 7.56 | 7.51 | 8.15 |
| Memo items: | | | | | | | | | |
| International bunkers | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| Aviation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Navigation | 0.00 | 0.00 | NO | NO | NO | 0.00 | 0.00 | 0.00 | 0.00 |
| Multilateral operations | C | C | C | C | C | C | C | C | С |
| CO2 emissions from biomass | | | | | | | | | |
| CO2 captured | | | | | | | | | |
| Long-term storage of C in waste disposal sites | | | | | | | | | |
| Indirect N2O | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| Indirect CO2 (3) | | | | | | | | | |

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

Table 1(c) Emission trends (N₂O) (Sheet 2 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|---|------------|------------|------------|------------|--------------|------------|------------|------------|------------|------------|
| | 0.25 | 0.50 | 0.50 | 0.51 | 0.20 | 0.40 | 0.50 | 0.41 | 0.42 | 0.45 |
| 1. Energy | 0.35 | 0.50 | 0.53 | 0.51 | 0.39 | 0.42 | 0.58 | 0.41 | 0.43 | 0.45 |
| A. Fuel combustion (sectoral approach) | 0.35 | 0.50 | 0.53 | 0.51 | 0.39 | 0.42 | 0.58 | 0.41 | 0.43 | 0.45 |
| 1. Energy industries | 0.06 | 0.06 | 0.06 | 0.07 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 |
| 2. Manufacturing industries and construction | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.04 |
| 3. Transport | 0.20 | 0.35 | 0.37 | 0.35 | 0.22 | 0.22 | 0.39 | 0.23 | 0.25 | 0.26 |
| 4. Other sectors | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.08 | 0.07 | 0.07 | 0.07 | 0.06 |
| 5. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| B. Fugitive emissions from fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1. Solid fuels | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA | NO, NA |
| 2. Oil and natural gas and other emissions from energy production | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| C. CO2 transport and storage | | | | | | | | | | |
| 2. Industrial processes | 1.79 | 2.09 | 2.44 | 2.07 | 2.01 | 1.91 | 2.30 | 2.25 | 2.22 | 2.44 |
| A. Mineral industry | | | | | | | | | | |
| B. Chemical industry | 1.68 | 1.98 | 2.33 | 1.95 | 1.90 | 1.80 | 2.19 | 2.14 | 2.11 | 2.33 |
| C. Metal industry | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| D. Non-energy products from fuels and solvent use | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| E. Electronic industry | | | | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | | | | |
| G. Other product manufacture and use | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| H. Other | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 3. Agriculture | 4.55 | 4.78 | 4.83 | 5.16 | 5.02 | 4.70 | 5.14 | 5.20 | 4.93 | 4.96 |
| A. Enteric fermentation | | | | | | | | | | |
| B. Manure management | 0.67 | 0.68 | 0.62 | 0.64 | 0.62 | 0.60 | 0.66 | 0.61 | 0.63 | 0.58 |
| C. Rice cultivation | | | | | | | | | | |
| D. Agricultural soils | 3.88 | 4.10 | 4.21 | 4.52 | 4.41 | 4.11 | 4.48 | 4.58 | 4.31 | 4.38 |
| E. Prescribed burning of savannas | | | | | | | | | | |
| F. Field burning of agricultural residues | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Liming | | | | | | | | | | |
| H. Urea application | _ | | | | | | | | | |
| I. Other carbon containing fertlizers | _ | | | | | | | | | |
| J. Other | | | | | | | | | | |
| 4. Land use, land-use change and forestry | 0.12 | 0.03 | 0.24 | 0.06 | 0.03 | 0.11 | 0.02 | 0.03 | 0.03 | 0.10 |
| A. Forest land | 0.09 | 0.01 | 0.19 | 0.04 | 0.01 | 0.08 | 0.00 | 0.00 | 0.01 | 0.07 |
| B. Cropland | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| C. Grassland | 0.02 | 0.01 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.01 |
| D. Wetlands | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO |
| E. Settlements | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| F. Other land | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| G. Harvested wood products | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| H. Other | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| 5. Waste | 0.23 | 0.24 | 0.24 | 0.25 | 0.26 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 |
| A. Solid waste disposal | 0.23 | 0.24 | 0.24 | 0.25 | 0.20 | 0.20 | 0.20 | 0.27 | 0.20 | 0.20 |
| B. Biological treatment of solid waste | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA | IE, NE, NA |
| C. Incineration and open burning of waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| D. Waste water treatment and dischargeE. Other | 0.23 | | | 0.25 | | | | 0.27 NO | | 0.28 NO |
| | NO | NO | NO | NO | NO | NO | NO | NU | NO | NO |
| 6. Other (as specified in the summary table in CRF) | | 7.60 | 0.04 | 7.00 | 5 (0) | 7.00 | 0.00 | 0.10 | | 0.12 |
| Total direct N2O emissions without N2O from LULUCF | 6.92 | 7.62 | 8.04 | 7.99 | 7.69 | 7.29 | 8.28 | 8.13 | 7.87 | 8.13 |
| Total direct N2O emissions with N2O from LULUCF | 7.04 | 7.65 | 8.28 | 8.05 | 7.72 | 7.40 | 8.30 | 8.16 | 7.90 | 8.23 |

| Memo items: | | | | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| International bunkers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Aviation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Navigation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Multilateral operations | C | C | C | C | C | C | C | C | C | С |
| CO2 emissions from biomass | | | | | | | | | | |
| CO2 captured | | | | | | | | | | |
| Long-term storage of C in waste disposal sites | | | | | | | | | | |
| Indirect N2O | NA, NO |
| Indirect CO2 (3) | | | | | | | | | | |

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

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

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Change from base to latest reported year |
|---|------------|------------|------------|------------|------------|--------|---|
| | | | | | | | % |
| 1. Energy | 0.42 | 0.41 | 0.41 | 0.37 | 0.37 | 0.36 | -11.86 |
| A. Fuel combustion (sectoral approach) | 0.42 | 0.41 | 0.41 | 0.37 | 0.37 | 0.36 | -11.57 |
| 1. Energy industries | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 11.86 |
| 2. Manufacturing industries and construction | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | -56.25 |
| 3. Transport | 0.25 | 0.24 | 0.23 | 0.19 | 0.19 | 0.19 | 3.21 |
| 4. Other sectors | 0.06 | 0.06 | 0.07 | 0.08 | 0.08 | 0.08 | -25.21 |
| 5. Other | NO | NO | NO | NO | NO | NO | |
| B. Fugitive emissions from fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -77.72 |
| 1. Solid fuels | NO, NA | NO, NA | |
| 2. Oil and natural gas and other emissions from energy production | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -77.72 |
| C. CO2 transport and storage | | | | | | | |
| 2. Industrial processes | 2.49 | 2.10 | 2.67 | 2.64 | 2.33 | 0.95 | -64.14 |
| A. Mineral industry | | | | | | | |
| B. Chemical industry | 2.38 | 1.99 | 2.57 | 2.53 | 2.19 | 0.81 | -68.13 |
| C. Metal industry | NO | NO | NO | NO | NO | NO | |
| D. Non-energy products from fuels and solvent use | NA | NA | NA | NA | NA | NA | |
| E. Electronic industry | | | | | | | |
| F. Product uses as ODS substitutes | | | | | | | |
| G. Other product manufacture and use | 0.11 | 0.11 | 0.10 | 0.11 | 0.14 | 0.14 | 26.03 |
| H. Other | NA | NA | NA | NA | NA | NA | |
| 3. Agriculture | 5.02 | 4.66 | 4.38 | 4.64 | 4.46 | 4.13 | -33.94 |
| A. Enteric fermentation | | | | | | | |
| B. Manure management | 0.55 | 0.55 | 0.54 | 0.51 | 0.47 | 0.47 | -56.57 |
| C. Rice cultivation | | | | | | | |
| D. Agricultural soils | 4.48 | 4.11 | 3.84 | 4.14 | 3.99 | 3.66 | -29.18 |
| E. Prescribed burning of savannas | | | | | | | |
| F. Field burning of agricultural residues | NO | NO | NO | NO | NO | NO | |
| G. Liming | | | | | | | |
| H. Urea application | | | | | | | |
| I. Other carbon containing fertlizers | | | | | | | |
| J. Other | | | | | | | |
| 4. Land use, land-use change and forestry | 0.05 | 0.04 | 0.03 | 0.08 | 0.12 | 0.04 | 113.04 |
| A. Forest land | 0.02 | 0.01 | 0.00 | 0.03 | 0.08 | 0.00 | 29.78 |
| B. Cropland | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 120.63 |
| C. Grassland | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 334.10 |
| D. Wetlands | NA, NO | NA, NO | |
| E. Settlements | NO | NO | NO | NO | NO | NO | |
| F. Other land | NO | NO | NO | NO | NO | NO | |
| G. Harvested wood products | | | | | | | |
| H. Other | NO | NO | NO | NO | NO | NO | |
| 5. Waste | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.29 | 30.23 |
| A. Solid waste disposal | | | | | | | |
| B. Biological treatment of solid waste | IE, NE, NA | 0.01 | |
| C. Incineration and open burning of waste | 0.00 | NA, NO | NA, NO | NA, NO | NA, NO | NA, NO | |
| D. Waste water treatment and discharge | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.28 | |
| E. Other | NO | NO | NO | NO | NO | NO | |
| 6. Other (as specified in the summary table in CRF) | | | | | | | |
| Total direct N2O emissions without N2O from LULUCF | 8.23 | 7.46 | 7.73 | 7.94 | 7.45 | 5.73 | -39.87 |

| 1 otal direct N2O emissions without N2O from LULUCF | 8.23 | /.40 | 1.13 | /.94 | 7.45 | 5.75 | -39.87 |
|---|--------|--------|--------|--------|--------|--------|--------|
| Total direct N2O emissions with N2O from LULUCF | 8.27 | 7.50 | 7.76 | 8.01 | 7.57 | 5.77 | -39.57 |
| Memo items: | | | | | | | |
| International bunkers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -64.53 |
| Aviation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -17.32 |
| Navigation | 0.00 | 0.00 | 0.00 | 0.00 | NO | NO | |
| Multilateral operations | C | С | C | C | C | C | |
| CO2 emissions from biomass | | | | | | | |
| CO2 captured | | | | | | | |
| Long-term storage of C in waste disposal sites | | | | | | | |
| Indirect N2O | NA, NO | |
| Indirect CO2 (3) | | | | | | | |

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

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

Custom Footnotes

Table 1(d) Emission trends (HFCs, PFCs and SF₆) (Sheet 1 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | Base year ^a | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--|------------------------|----------|--------|-------|-------|-------|-------|-------|--------|
| | kt | | | | | | | | |
| Emissions of HFCs and PFCs - (kt CO2 equivalent) | 1,240.24 | 1,240.24 | 850.75 | NO | NO | NO | 57.28 | 80.07 | 106.14 |
| Emissions of HFCs - (kt CO2 equivalent) | NO | NO | NO | NO | NO | NO | 57.28 | 80.07 | 106.14 |
| HFC-23 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-32 | NO | NO | NO | NO | NO | NO | 0.00 | 0.00 | 0.00 |
| HFC-41 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-43-10mee | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-125 | NO | NO | NO | NO | NO | NO | 0.00 | 0.00 | 0.01 |
| HFC-134 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-134a | NO | NO | NO | NO | NO | NO | 0.03 | 0.04 | 0.05 |
| HFC-143 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-143a | NO | NO | NO | NO | NO | NO | 0.00 | 0.00 | 0.00 |
| HFC-152 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-152a | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-161 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-227ea | NO | NO | NO | NO | NO | NO | 0.00 | 0.00 | 0.00 |
| HFC-236cb | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-236ea | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-236fa | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-245ca | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-245fa | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| HFC-365mfc | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Unspecified mix of HFCs(4) - (kt CO ₂ equivalent) | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Emissions of PFCs - (kt CO2 equivalent) | 1,240.24 | 1,240.24 | 850.75 | NO | NO | NO | NO | NO | NO |
| CF ₄ | 0.12 | 0.12 | 0.08 | NO | NO | NO | NO | NO | NO |
| C_2F_6 | 0.03 | 0.03 | 0.02 | NO | NO | NO | NO | NO | NO |
| C ₃ F ₈ | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| C_4F_{10} | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| c-C ₄ F ₈ | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| C ₅ F ₁₂ | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| C ₆ F ₁₄ | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| C10F18 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| c-C3F6 | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Unspecified mix of PFCs(4) - (kt CO ₂ equivalent) | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Unspecified mix of HFCs and PFCs - (kt CO2 equivalent) | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| Emissions of SF6 - (kt CO2 equivalent) | 10.45 | 10.45 | 10.33 | 10.42 | 10.53 | 10.64 | 11.12 | 11.57 | 11.43 |
| SF ₆ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions of NF3 - (kt CO2 equivalent) | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| NF3 | NO | NO | NO | NO | NO | NO | NO | NO | NO |

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

Table 1(d) Emission trends (HFCs, PFCs and SF₆) (Sheet 2 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Emissions of HFCs and PFCs - (kt CO2 equivalent) | 139.06 | 166.70 | 199.21 | 224.96 | 261.93 | 304.77 | 347.89 | 386.12 | 422.70 | 469.51 |
| Emissions of HFCs - (kt CO2 equivalent) | 139.06 | 166.70 | 199.21 | 224.96 | 261.93 | 304.77 | 347.89 | 386.12 | 422.70 | 469.51 |
| HFC-23 | NO |
| HFC-32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| HFC-41 | NO |
| HFC-43-10mee | NO |
| HFC-125 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| HFC-134 | NO |
| HFC-134a | 0.06 | 0.08 | 0.09 | 0.11 | 0.12 | 0.15 | 0.17 | 0.19 | 0.21 | 0.23 |
| HFC-143 | NO |
| HFC-143a | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| HFC-152 | NO |
| HFC-152a | NO | 0.00 | 0.00 |
| HFC-161 | NO |
| HFC-227ea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| HFC-236cb | NO |
| HFC-236ea | NO |
| HFC-236fa | NO | 0.00 | 0.00 |
| HFC-245ca | NO |
| HFC-245fa | NO |
| HFC-365mfc | NO |
| Unspecified mix of HFCs(4) - (kt CO ₂ equivalent) | NO |
| Emissions of PFCs - (kt CO2 equivalent) | NO |
| CF ₄ | NO |
| C ₂ F ₆ | NO |
| C ₃ F ₈ | NO |
| C_4F_{10} | NO |
| $c-C_4F_8$ | NO |
| C ₅ F ₁₂ | NO |
| C ₆ F ₁₄ | NO |
| C10F18 | NO |
| c-C3F6 | NO |
| Unspecified mix of PFCs(4) - (kt CO ₂ equivalent) | NO |
| Unspecified mix of HFCs and PFCs - (kt CO2 equivalent) | NO |
| Emissions of SF6 - (kt CO2 equivalent) | 11.99 | 11.99 | 11.62 | 11.69 | 12.01 | 12.28 | 12.57 | 13.03 | 13.01 | 13.05 |
| SF ₆ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Emissions of NF3 - (kt CO2 equivalent) | NO |
| NF3 | NO |

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

Table 1(d) Emission trends (HFCs, PFCs and SF₆) (Sheet 3 of 3)

| GREENHOUSE GAS SOURCE AND SINK CATEGORIES | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | Change from base to latest reported year |
|--|--------|--------|--------|--------|--------|--------|--|
| | | | | | | | % |
| Emissions of HFCs and PFCs - (kt CO2 equivalent) | 490.33 | 495.90 | 543.99 | 563.15 | 564.99 | 577.77 | -53.41 |
| Emissions of HFCs - (kt CO2 equivalent) | 490.33 | 495.65 | 543.95 | 563.13 | 564.96 | 577.71 | |
| HFC-23 | NO | NO | 0.00 | 0.00 | NO | 0.00 | |
| HFC-32 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | |
| HFC-41 | NO | NO | NO | NO | NO | NO | |
| HFC-43-10mee | NO | NO | NO | NO | NO | NO | |
| HFC-125 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | |
| HFC-134 | NO | NO | NO | NO | NO | NO | |
| HFC-134a | 0.24 | 0.25 | 0.27 | 0.27 | 0.27 | 0.27 | |
| HFC-143 | NO | NO | NO | NO | NO | NO | |
| HFC-143a | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | |
| HFC-152 | NO | NO | NO | NO | NO | NO | |
| HFC-152a | NO | 0.00 | 0.04 | NO | NO | NO | |
| HFC-161 | NO | NO | NO | NO | NO | NO | |
| HFC-227ea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| HFC-236cb | NO | NO | NO | NO | NO | NO | |
| HFC-236ea | NO | NO | NO | NO | NO | NO | |
| HFC-236fa | 0.00 | NO | NO | 0.00 | 0.00 | 0.00 | |
| HFC-245ca | NO | NO | NO | NO | NO | NO | |
| HFC-245fa | NO | NO | NO | NO | NO | NO | |
| HFC-365mfc | NO | NO | NO | NO | NO | NO | |
| Unspecified mix of HFCs(4) - (kt CO_2 equivalent) | NO | NO | NO | NO | NO | NO | |
| Emissions of PFCs - (kt CO2 equivalent) | NO | 0.26 | 0.03 | 0.02 | 0.03 | 0.06 | -100.00 |
| CF_4 | NO | NO | 0.00 | NO | NO | NO | |
| C_2F_6 | NO | NO | NO | NO | NO | 0.00 | -99.98 |
| C_3F_8 | NO | 0.00 | 0.00 | 0.00 | 0.00 | NO | |
| C_4F_{10} | NO | NO | NO | NO | NO | NO | |
| c-C ₄ F ₈ | NO | NO | NO | NO | NO | NO | |
| C_5F_{12} | NO | NO | NO | NO | NO | NO | |
| $C_{6}F_{14}$ | NO | NO | NO | NO | NO | NO | |
| C10F18 | NO | NO | NO | NO | NO | NO | |
| c-C3F6 | NO | NO | NO | NO | NO | NO | |
| Unspecified mix of PFCs(4) - (kt CO ₂ equivalent) | NO | NO | NO | NO | NO | NO | |
| Unspecified mix of HFCs and PFCs - (kt CO2 equivalent) | NO | NO | NO | NO | NO | NO | |
| Emissions of SF6 - (kt CO2 equivalent) | 11.98 | 8.03 | 8.95 | 9.37 | 9.21 | 6.58 | -37.03 |
| SF ₆ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -37.03 |
| Emissions of NF3 - (kt CO2 equivalent) | NO | NO | NO | NO | NO | NO | |
| NF3 | NO | NO | NO | NO | NO | NO | |

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

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

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

equivalent emissions.

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

Custom Footnotes

Documentation Box:

Table 2(a)

HRV_BR2_v1.0

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

| Party | "roatia | | | | | |
|----------------------------|----------------------------|------------------------|--|--|--|--|
| Base year /base period | 1990 | | | | | |
| Emission reduction target | % of base year/base period | % of 1990 ^b | | | | |
| | 20.00 | 20.00 | | | | |
| Period for reaching target | BY-2020 | | | | | |

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

^b Optional.

Table 2(b) $HRV_BR2_v1.0$ **Description of quantified economy-wide emission reduction target: gasesand sectors covered**^a

| Ga | ises covered | Base year for each gas (year): |
|------------------------------|-----------------------------------|--------------------------------|
| CO ₂ | | 1990 |
| CH ₄ | | 1990 |
| N ₂ O | | 1990 |
| HFCs | | 1990 |
| PFCs | | 1990 |
| SF ₆ | | 1990 |
| NF ₃ | | |
| Other Gases (specify) |) | |
| Sectors covered ^b | Energy | Yes |
| | Transport ^f | Yes |
| | Industrial processes ^g | Yes |
| | Agriculture | Yes |
| | LULUCF | No |
| | Waste | Yes |
| | Other Sectors (specify) | |

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

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

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

^{*f*} Transport is reported as a subsector of the energy sector.

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

Table 2(c)HRV_BR2_v1.0Description of quantified economy-wide emission reduction target: globalwarming potential values $(GWP)^a$

| Gases | GWP values ^b |
|-----------------------|-------------------------|
| CO ₂ | 4th AR |
| CH ₄ | 4th AR |
| N ₂ O | 4th AR |
| HFCs | 4th AR |
| PFCs | 4th AR |
| SF ₆ | 4th AR |
| NF ₃ | 4th AR |
| Other Gases (specify) | · |

Abbreviations : GWP = global warming potential

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

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

Table 2(d)

HRV_BR2_v1.0

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

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

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

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

Table 2(e)I $HRV_BR2_v1.0$ Description of quantified economy-wide emission reduction target: market-based mechanismsunder the Convention^a

| Market-based mechanisms | Possible scale of contributions | | | | | | | | |
|---|---------------------------------|--|--|--|--|--|--|--|--|
| under the Convention | (estimated kt CO $_2$ eq) | | | | | | | | |
| CERs | | | | | | | | | |
| ERUs | | | | | | | | | |
| AAUs ⁱ | | | | | | | | | |
| Carry-over units ^j | | | | | | | | | |
| Other mechanism units under the Convention (specify) ^d | | | | | | | | | |

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

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

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

^{*i*} AAUs issued to or purchased by a Party.

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

Table 2(e)II HRV_BR2_v1.0 Description of quantified economy-wide emission reduction target: other market-based mechanisms^a

| Other market-based mechanisms | Possible scale of contributions |
|-------------------------------|---------------------------------|
| (Specify) | (estimated kt CO $_2$ eq) |
| | |
| | |

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

Description of quantified economy-wide emission reduction target: any other information^{*a,b*}

In December 2009, the European Council reiterated the conditional offer of the EU to move to a 30% reduction by 2020 compared to 1990 levels as part of a global and comprehensive agreement for the period beyond 2012, provided that other developed countries commit themselves to comparable emission reductions and that developing countries contribute adequately according to their responsibilities and respective capabilities.

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

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

Custom Footnotes

(Decision No406/2009/EC). These legally binding trajectories not only result in a 20% GHG reduction in 2020 compared to 1990 but also define the EU's annual targetpathway to reduce EU GHG emissions from 2013 to 2020. The Effort Sharing Decision sets annual national emission targets for all Member States for the period 2013-2020 for those sectors not covered by the EU emissions tradingsystem (ETS), expressed as percentage changes from 2005 levels. In March 2013, the Commission formally adopted the national annual limits throughout theperiod for each Member State. By 2020, the national targets will collectively deliver a reduction of around 10% in total EU emissions from the sectors covered compared with 2005 levels. The emission reduction to be achieved

| Name of mitigation act | and a | ctor(s) ected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | |
|---|-------------------------------|-------------------------------|------------------------------------|---|------------------------------------|--|--|------------------------------|---|--------------------------------------|----|
| MSP-1: Inclusion of the operators in the European Union Emission Trading System (EU ETS) in the full scale from 1 January 2013 and administering aviation operators from 1 January 2014* | Energy Industr al proce | y/industri | CO ₂ , N ₂ O | Increase in renewable energy Switch to less carbon- intensive fuels Efficiency improvement in the energy and transformation sector Efficiency improvement in industrial end-use sectors Installation of abatement technologies Reduction of losses | (Regulatory) | Implemented | From 1 January 2013, the Republic of Croatia is fully integrated in the EU Emission Trading System (EU ETS). Operators in Croatia - the pursuants in the EU ETS have been issued with Permits for greenhouse gas emissions and had established a regime for emissions monitoring and reporting to the Competent authority. The EU ETS includes activities listed in Annex I of the Regulation on the Greenhouse Gas Emission Allowances Trading (OG 69/12, 154/14). Greenhouse gases covered by EU ETS are: carbon dioxide (CO2) for all activities and additionally for certain activities nitrous oxide (N2O) and perfluorocarbon (PFC). Additional activity included in EU ETS is aviation. Aircraft operators in Croatia are included in the EU ETS from 2012, and Croatia undertook to administer aviation operators included in the EU ETS from 2014. All operators, except electricity producers for third parties sales, have submitted their applications for issuance of free allowances. Operators, which will not have a sufficient number of allowances to cover their greenhouse gases emissions, have the option to purchase emission units through an auctions or at a specialized secondary market. | | Ministry of Environmental and Nature Protection Croatian Environment Agency | | NE |

| Name of mitigation action | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | <i>Type of</i> instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation cumulative, in kt C | |
|--|------------------------------------|---|---------------------------------------|---|--|--|------------------------------|---|---|---|
| MSP-2: Adoption of the Plan for use of funds obtained from the sales of emission allowances through auctions* | Cross-cutting | CH ₄ , CO ₂ , N ₂ O, PFCs, HFCs, SF ₆ | Framework policy | Economic | Implemented | Of the total number of allowances designated for the allocation to operators and aircraft operators, in each year of the trading period, part is distributed free of charge according to the prescribed method. The remaining part is distributed to the Member States of the European Union and is subject to public auctions. Revenues from the sales of emission allowances through auctions belong to the member states, of which at least 50 percent of collected funds must be earmarked for activities that are directly associated with the reduction of greenhouse gas emissions. The Air Protection Act (OG 130/11, 47/14) stipulates that Republic of Croatia for such purposes use all funds received decreased by 5 percent, and 15 percent for 2014 and 2015, which will be paid to the state budget of the Republic of Croatian to cover the costs of administering the emissions trading system, for administrative affairs, the functioning of the Union Registry, auctioneers, the National System for monitoring greenhouse gas emissions and other matters related to climate change. Plan for the use of funds obtained from the sales of emission allowances through auctions in the Republic of Croatia for the period from 2014 to 2016 adopted by the Croatian Government (OG 140/14) on the proposal of the ministry responsible for environmental protection, while funds are paid into a special account of the Environmental protection and energy efficiency fund. | | Ministry of Environmental and Nature Protection Government of Republic of Croatia | | 0 |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | - · |
|---|--|--------------------|---------------------------------------|------------------------------------|--|--|------------------------------|------------------------------------|--------------------------------------|-----|
| MSP-3: Preparation of National Feasibility Study with the action plan for the preparatory activities for CCS projects in Croatia | Energy, Industry/industri al processes | CO2 | Carbon capture and storage | Other (Information) | Planned | Technology for carbon capture and storage for large emission sources is not yet commercially available. The possibility of commercial application is expected in the period after the 2020. According to Directive 2009/31/EC on the geological storage of carbon dioxide, respectively Article 36 of Directive on industrial emissions 2010/75/EU, for power plants with capacity exceeding 300 MW which have obtained the construction permit after the entry into force of the Directive 2009/31/EK it is necessary to assess whether the following requirements are satisfied: - suitable storage locations are available, - transport facilities are technically and economically feasible and - upgrade of the plant for CO2 capture is technically and economically feasible If these conditions are satisfied, the competent authority should provide adequate reserve area on the plant's location for equipment for capturing and compressing extracted CO2. Due to described commitments for new thermal power plants, with this measure preparation of National Feasibility Study with the action plan of the preparatory activities for CCS projects, is planned. This Study will include stages of capturing on the sources of emissions, transport, injection and storage. | | Ministry of Economy | | 0 |

| Name of mitigation action | a Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigati cumulative, in i | 1 (|
|---|--|--------------------|---|------------------------------------|---------------------------------------|---|------------------------------|--|--|-----|
| MEN-1 Promotion of energy efficiency in households and services through project activities* | Energy | CO2 | Efficiency improvements of buildings Efficiency improvement in services/ tertiary sector Efficiency improvement of appliances Efficiency improvement in industrial end-use sectors | atory Information | | Increase of energy efficiency in buildings has been identified as an area with great potential for saving energy and reducing greenhouse gas emissions. Important documents that have been adopted are as follows: - The Third National Action Plan for Energy Efficiency Croatia for the period 2014-2016 (Ministry of Economy, 2014), - The Long-term Strategy to Stimulate Investment in the Renovation of the National Building Stock in Croatia (OG 74/14), - The Program of Energy Renovation of Apartment Buildings for the Period from 2014 to 2020 with a Detailed Plan for the Period from 2014 to 2016 (OG 78/14), - The Program of Energy Renovation of Commercial Non-residential Buildings for the Period from 2014 to 2014 to 2014 to 2016 (OG 43/14), - The Program of Energy Renovation of Commercial Non-residential Buildings for the Period from 2014 to 2016 (OG 98/14) and - The Programme for the Energy Renovation of Public Buildings (Ministry of Construction and Physical Planning, 2013). In the above listed documents mechanisms, dynamics and aims to achieve energy savings and reduce greenhouse gas emissions in buildings are prescribed. | 2004 | Ministry of Economy Ministry of Construction and Physical Planning | | IE |
| MEN-2 Energy audits in industry* | Energy, Industry/industri al processes | | Efficiency improvements of buildings Demand management/reduction Efficiency improvement in industrial end-use sectors | (Regulatory) | Implemented | With this measure, support to assess the potential energy savings in industrial plants through co-financing the implementation of energy audits should be provided. Scheme for Energy audits in industry includes: - mandatory energy audits for large companies (companies that meet at least two of the following criteria: total assets of at least HRK 130,000,000.00, annual income of at least HRK 260,000,000.00, an average of at least 250 employees during the financial year). The obligation is regulated by the Law on Energy Efficiency (OG 127/14), - voluntary scheme of energy audits for small and medium companies. Energy audits on a voluntary basis are supported by the financial assistance provided by the Environmental Protection and Energy Efficiency Fund. | 2010 | Ministry of Environmental and Nature Protection Ministry of Economy | | IE |

| Name of mitigation act | ion ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | |
|---|------------------|------------------------------------|--------------------|---|------------------------------------|--|--|------------------------------|---|--------------------------------------|----|
| MEN-3 Measurement and informative calculation of energy consumption* | | Energy | CO2 | Demand management/reduction | Information | Implemented | Law on Energy Efficiency (OG 127/14) stipulates that energy distributors ensure that, to the extent that is technically possible, financially reasonable and proportionate in view of the potential energy savings, final customers of energy and hot water in homes acquire individual meters at competitive prices that accurately reflect the actual energy consumption of end customers. Energy supplier shall free of charge on request of the end customer at least once a year provide information on the calculation of electricity, heat or gas and previous consumption of the end customer. Legible and understandable energy bills (electricity, heat and natural gas) and individual consumption metering are obligation of distribution system operators and suppliers. This will increase consumer awareness of the way in which they consume the energy. The bills should include comparisons of consumption for the current year and for the corresponding period of the previous year, as well as information on available energy efficiency measures. | 2010 | Ministry of Economy Distributing companies | | IE |
| MEN-4, MEN-8 Promotion of the cogeneration construction* | | Energy | CO ₂ | Efficiency improvement in the energy and transformation sector Increase in renewable energy | Other (Regulatory) | Implemented | The legislative framework which introduces a system of incentives for electricity generation from cogeneration was adopted for implementation of this measure. The largest contribution is expected from new industrial cogeneration. Incentives (tariffs) are the main mechanism for the promotion of cogeneration. Tariffs depend on the installed plant capacity. In addition to the system of incentives for electricity generation from cogeneration plants, this measure provides adoption of appropriate regulations to promote the heat generation from cogeneration (defining the status of eligible heat producer). | 2007 | Ministry of Economy | | NE |

| Name of mitigation action | ^u | ctor(s) fected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | |
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| MEN-5 Labelling the energy efficiency of household appliances* | Energ | / | - | 5 1 | Other (Information) | Implemented | Scheme of labelling the energy efficiency of household appliancesis is legally prescribed in the Regulations on Energy Labeling of Household Appliances (OG 130/2007, 101/2011). It is prescribed that energy efficiency label have to be marked on all household appliances that use electricity and are placed on the Croatian market, whether they are manufactured in the Republic of Croatia or imported. By energy labeling customers are informed about the energy consumption of devices, and selection is directed towards more efficient appliances. For the implementation of these measures, a lot has been done to raise public awareness and educate in order to increase the market share of household appliances with A, A+, A++ energy efficiency class and reduce the market share of household appliances under class C. | 2007 | Ministry of Economy | | IE |
| MEN-6 Eco-design of energy-using products* | Energ | | - | · · · | Other (Information) | Implemented | Ordinance on establishing Eco-design requirements for energy related products (OG 80/2013), transferred the 2009/125/EZ Directive of the European Parliament and of the Council of 21 the October 2009 about establishing a framework for determining the Eco-design requirements for energy related products to the Croatian legislation. This Ordinance established a framework for the setting of EU Eco-design of energy-related products with the aim of ensuring the free movement of these products on the internal market. The Ordinance provides for the determination of requirements to be met by energy-related products covered by implementing measures, to be placed on the market and / or in use. It contributes to sustainable development by increasing the energy efficiency and level of environmental protection, while at the same time increasing the security of energy supply. This Ordinance also allows the implementation of provisions related to the Directive 2009/125/EZ (air conditioners and fans, fan motor-driven, self- circulation pumps without seals, household washing machines, electric motors, non-directional household lamps, lamps directed to the corresponding equipment LED - lamps, fluorescent lamps, external power supplies, cooling devices, simple control boxes, electric and electronic equipment in homes and offices - mode, hold and mute, televisions, household dryers, washing household dishes and pumps water). The Ordinance came into force on the date of the Republic of Croatia accession to EU. | 2013 | Ministry of Economy | | IE |

| Name of mitigation action | n ^a | Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | <i>Type of</i> instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | |
|--|----------------|---------------------------------------|--------------------|---|---|--|--|------------------------------|---|--------------------------------------|----|
| MEN-7 Supporting the use of renewable energy sources in electricity generation* | | Energy | 2 | Increase in renewable energy | Other (Regulatory) | | For the implementation of measures, legislative framework, which introduces a system of incentives electricity generation using renewable energy sources, has been adopted. The main mechanism for development of renewable energy sources are incentive prices (tariffs). The tariffs depend on the type of source, power plant size and amount of generated electricity. In the National Action Plan for Renewable Energy Sources (Ministry of Economy, 2013), the Republic of Croatia determined the objectives and policy for increasing the share of RES in final energy consumption by 2020. The Act on Renewable Energy Sources (OG 100/15) was adopted in 2015. The act, among other things, reforms the incentive system from feed-in tariffs to the premium model. The law should come into force at the beginning of 2016. | 2007 | Ministry of Economy | | ΙĒ |
| MEN-9 Usage of biodegradable fraction of municipal waste in public electricity and heating plants* | | Energy, Waste management/was te | | Switch to less carbon- intensive fuels Increase in renewable energy Enhanced CH4 collection and use Waste incineration with energy use | Other (Regulatory) | | This is a cross-cutting measure meaning that it requires coordination of activities with "Waste management" sector. This measure is related to the measures MSP-15: Use of biogas for electricity and heat generation and MSP-16: Thermal treatment of municipal waste and sludge from wastewater treatment plants. The reduction of biodegradable waste in disposed municipal solid waste is one of the main objectives defined in the Waste Management Plan of the Republic of Croatia for the period from 2007 until 2015 (OG 85/2007, 126/2010, 31/2011) and the Law of Sustainable Waste Management (OG 94/2013). Using of biodegradable waste for production of biogas that could be used as a fuel as well as municipal waste and sludge from wastewater treatment in thermal treatment plant also means reducing the consumption of fossil fuels in the energy sector. One of the activities leading to the accomplishment of this objective is the utilization of waste as alternative fuel in public electricity and heating plants. | 2012 | Ministry of Environmental and Nature Protection | | ΙĒ |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | • · |
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| MEN-10 Use of refuse derived fuel in cement industry* | Energy, Industry/industri al processes, Waste management/was te | | Increase in renewable energy Switch to less carbon- intensive fuels Installation of abatement technologies Improved treatment technologies | Other (Regulatory) | Implemented | This is a cross-cutting measure meaning that it requires coordination of activities with "Waste management" sector. This measure is related to the measures MSP-14: Production of fuel from waste and processing of waste for use in the cement industry and MSP-15: Use of biogas for electricity and heat generation. The objective of this measure is that the waste is utilized as a fuel of rotary kilns in cement industry. The reduction of biodegradable waste in disposed municipal solid waste is one of the main objectives defined in the Waste Management Plan of the Republic of Croatia for the period from 2007 until 2015 (OG 85/2007, 126/2010, 31/2011) and the Law of Sustainable Waste Management (OG 94/2013). Waste Management Plan defines the technological processes of processing and utilization of municipal waste before final disposal of waste management centers, where procedures are mechanical-biological waste treatment are considered as methods for the production of fuel from waste. Use of fuel from waste results in reduced consumption of primary energy sources. Precondition for implementation of this measure is to ensure a stable quantity, composition and structure of waste. | 2012 | Ministry of Environmental and Nature Protection | | NE |
| MEN-11 Promotion of the use of renewable energy sources in heat/cooling energy production | Energy | CO ₂ | Increase in renewable energy | Other (Regulatory) | Implemented | The Law on the Market of Thermal Energy (OG 80/13, 14/14, 102/14, 95/15) stipulates that the use of renewable energy as a source of thermal energy is of interest for Croatia. The Republic of Croatia has in the National Action Plan for Renewable Energy Sources (Ministry of Economy, 2013) determined the objectives and policy for increasing the share of RES in final energy consumption by 2020 and in particular, the estimated contribution of energy sources for heating and cooling from renewable energy. The Act on Renewable Energy Sources (OG 100/15) was adopted in 2015. The law should come into force at the beginning of 2016. | 2016 | Ministry of economy | | NE |

| Name of mitigation action | a Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation impact (not cumulative, in kt CO ₂ eq) |
|---|--------------------------------------|--------------------|---|------------------------------------|--|---|------------------------------|---|---|
| MEN-12 Promotion of the use of renewable energy sources and energy efficiency by HBOR-a (Croatian Bank for Reconstruction and Development)* | Energy | CO2 | Increase in renewable energy Efficiency improvement in the energy and transformation sector Efficiency improvement in industrial end-use sectors Efficiency improvements of buildings Efficiency improvement in services/ tertiary sector | | Implemented | For the purpose of financing the environmental protection projects, HBOR extends loans through the Loan programme for the Preparation of Renewable Energy Resources and Loan Programme for the Financing of Projects of Environmental protection, Energy Efficiency and Renewable Energy Sources. The goal of the loan program of environmental projects, energy efficiency and renewable energy sources is the realization of investment projects focused on environmental protection, improving energy efficiency and promoting renewable energy. Loans are intended for investment in land, buildings, equipment and devices. Final user may be local and territorial (regional) governments, utility companies, companies, dealers, and other legal entities. | 2009 | Croatian Bank for Reconstruction and Development | IE |
| MEN-13 Promotion of the use of renewable energy sources and energy efficiency by FZOEU (The Environmental Protection and Energy Efficiency Fund) resources* | Energy, Transport | CO2 | Increase in renewable energy Switch to less carbon- intensive fuels Efficiency improvements of buildings Efficiency improvement in services/ tertiary sector Efficiency improvement in industrial end-use sectors Demand management/reduction Improved behaviour Low carbon fuels/electric cars | | Implemented | The Environmental Protection and Energy Efficiency Fund provides funding for the preparation, implementation and development of programs and projects in the field of environmental protection, energy efficiency and use of renewable energy sources and climate change mitigation. Funds for financing are provided from the revenues raised by environmental polluters, which includes fees for nitrogen oxides, sulfur dioxide and carbon dioxide emissions, fees for burdening the environment with waste, environmental user fees and special fees for the environment for motor vehicles. Resources of the Environmental Protection and Energy Efficiency Fund are allocated to projects, which improve energy efficiency, including cogeneration, district heating systems, energy audits and demonstration activities, public lighting projects, fuel replacement and waste heat use and projects in the field of building construction and sustainable construction. Renewable energy projects for which the Environmental Protection and Energy Efficiency Fund dividing resources include solar energy, wind energy, biomass, energy from small hydro and geothermal energy. The Environmental Protection and Energy Efficiency Fund provides grants to local and regional governments, companies, craftsmen, non-profit organizations and individuals, through loans, interest rate subsidies, financial aids and donations. For some tenders of the Fund operators in the EU ETS are eligible, thus this measure has effects in the EU ETS and non-EU ETS sector. | 2004 | Environmental protection and energy efficiency fund | |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation in cumulative, in kt CO | |
|---|------------------------------------|--------------------|--|------------------------------------|--|--|------------------------------|---|---|----|
| MEN-14 Energy efficiency projects with implementation through energy services* | Energy | CO ₂ | Efficiency improvements of buildings Efficiency improvement in services/ tertiary sector Efficiency improvement in industrial end-use sectors Demand management/reduction | Economic | Implemented | Energy efficiency projects with implementation through energy services include modernization, reconstruction and renovation of existing plants and facilities with the aim of rational use of energy in a way to achieve the return on investment through savings in energy costs and maintenance. These projects include the development, implementation and financing to improve energy efficiency and reduce operation and maintenance. Areas of business are public and private sectors, covering buildings (schools and kindergartens, offices, hotels, universities, hospitals), public lighting, industry and power supply systems (cogeneration, district heating). | 2004 | ESCO companies | | Π |
| MTR-2: Providing information to consumers on fuel economy and CO2 emission of new passenger cars* | Transport | CO2 | Low carbon fuels/electric cars | Information | Implemented | Pursuant to the Ordinance on Availability of Information on Fuel Economy and CO2 Emissions from Passenger Cars (OG 120/07), which was replaced by the new Ordinance on Availability of Information on Fuel Economy and CO2 Emissions from Passenger Cars (OG 7/2015) each supplier of new passenger cars intended for sale shall provide consumers with information on the fuel consumption rate and specific CO2 emission of passenger cars. The Ministry of Interior which is responsible for the road traffic safety, on the basis of the Ordinance once a year, not later than 31 March of the current year, makes a Guidelines on cost- effectiveness of fuel consumption and CO2 emission from new passenger cars available for purchase on the market in the Republic of Croatia. The Guidelines contains required information for each model of new passenger cars available in the domestic market. | 2007 | Ministry of Environmental and Nature Protection Ministry of Interior | | II |
| MTR-3: Implementation of the pilot project and establishment of training system for drivers of road vehicles for eco-driving* | Transport | CO ₂ | Improved behaviour | Education | Implemented | The pilot projects were conducted and the systematic training for drivers of road vehicles for eco-driving is implemented, as prescribed in the third National Action Plan for Energy Efficiency for the Period from 2014 to 2016 (Ministry of Economy, 2014) is . This saves energy and increases the level of awareness of all citizens and the driver in the Republic of Croatia on the advantages of this modern, intelligent and environmentally friendly driving style. Special elements are dedicated to education about eco driving for drivers of passenger cars, buses and trucks. | 2011 | Ministry of Environmental and Nature Protection Ministry of Interior | | Π |

| Name of mitigation action ⁶ | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation impact (not cumulative, in kt CO ₂ eq) | |
|--|--------------------------------------|--------------------|--|------------------------------------|--|--|------------------------------|------------------------------------|---|----|
| MTR-4: Promotion of production and use of biofuels in transport* | Energy, Transport, Agriculture | CO2 | Low carbon fuels/electric cars Increase in renewable energy | Economic Regul atory Fiscal | Implemented | The basic regulation that regulates and promotes the usage of biofuel is Law on Biofuels for Transport (OG 65/09, 145/10, 26/11, 144/12). Based on this law, in 2010, the National Action Plan that promotes the production and use of biofuels in transport for the period 2011 - 2020 was prepared. The Plan establishes a policy to promote increased production and use of biofuels in transport in Croatia. The Plan contains a review and assessment of the situation on the fuel market for transport and air protection, comparative analysis, long-term goals, including the target-market of biofuels and measures to promote increased production and use of biofuels in transport. Measures prescribed by action plan include measures that promote the production of raw materials for the production of biofuels, measures that promote the production of biofuels with reference to the fee for promotion of production, measures that promote consumption of biofuels with reference to liquid petroleum distributors to place the biofuels on market, administrative measures and research and development activities. The National Action Plan for Renewable Energy Sources (Ministry of Economy, 2013) determined the goals and policies related to increasing the share of RES in final energy consumption by 2020 and in particular the estimated contribution of energy of biofuels in transport. | | Ministry of Economy | | IE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigo cumulative, ir | |
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| MTR-5: Modification of the system for special fee payment for the environment for motor vehicles* | Transport | | Low carbon fuels/electric cars Efficiency improvements of vehicles | Fiscal | Implemented | The current system of paying a special fee for the environment in motor vehicles is regulated by Environmental Protection and Energy Efficiency Law (OG 107/03, 144/12), Regulation on unit charges, corrective coefficients and detailed criteria and standards to determine the special environmental fee for motor vehicles (OG 114/14, 147/14) and Ordinance on the manner and terms of calculation and payment of the special fee for environment in motor vehicles (OG 20/04). This measure proposed changes in the method of calculating the fees according to the criteria of pollutant emissions and greenhouse gas emissions to promote the purchase of vehicles with lower emissions. By the Amendments to the Regulation on unit charges, corrective coefficients and detailed criteria and benchmarks for determination of special environmental charges for motor vehicles (OG 114/14, 147/14), this measure was implemented. | 2014 | Ministry of Environmental and Nature Protection Environmental protection and energy efficiency fund | | IE |

| Name of mitigation ac | tion ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | or Estimate of mitigation imp cumulative, in kt CO 2 | |
|--|-------------------|------------------------------------|--------------------|---------------------------------------|------------------------------------|---------------------------------------|--|------------------------------|--|---|----|
| MTR-6: Financial incentives for the purchase of hybrid and electric vehicles* | | Transport | CO2 | Low carbon fuels/electric cars | Economic | Implemented | Electric and hybrid vehicles are due to the cost of technological development currently still more expensive than conventional vehicles using internal combustion engines. Electric vehicles are significantly more efficient than conventional from the standpoint of primary energy consumption and are almost neutral from the standpoint of carbon dioxide emissions provided that are powered by electricity generated by using renewable sources. In order to increase the share of electric and hybrid vehicles, subsidies for the purchase of electric and hybrid vehicles through a grant, have been introduced. These payments are made from the income of the Environmental Protection and Energy Efficiency Fund achieved, inter alia, by collecting special environmental charge for motor vehicles. The Third National Action Plan for Energy Efficiency for the Period from 2014 to 2016 (Ministry of Economy, 2014) prescribed goals and a plan to support purchases of electric and hybrid vehicles (OG 15/13, 108/13) introduced a special tax that is calculated on the basis of unit CO2 emissions, and is accounted for the purchase of new motor vehicles. Electric and hybrid vehicles are not covered by this law, which has further stimulated the procurement of vehicles with low greenhouse gas emissions. | | Ministry of Environmental and Nature Protection Ministry of Economy | | IE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation impact (not cumulative, in kt CO ₂ eq) |
|--|------------------------------------|---------------------------------|--|---------------------------------|--|---|------------------------------|---|---|
| MTR-7: Development of infrastructure for electric vehicles in urban areas | Transport | CO ₂ | Improved transport infrastructure Low carbon fuels/electric cars | Economic | Planned | The main objective of this measure is development and establishment of infrastructure necessary for popularizing the concept of mobility in urban areas and increase the number of electric vehicles in road traffic. Development of infrastructure should be focused on building the charging stations and stations for changing electric batteries. Because of the battery capacity, the autonomy of movement and time of charging, in urban areas is necessary to provide dense network of filling stations for vehicles in relation to the distribution of filling stations for vehicles with conventional drive. According to experiences in other countries, it was found that for the same services as for conventional vehicles it is necessary to provide one charging station for every four electric vehicles. For implementation of this measure it is necessary to prepare a techno-economic analysis with optimal solution and proposed network of filling/ battery changing stations. Croatia has adopted a National Policy Framework for Alternative Fuels (MMATI, 2015). | 2016 | Ministry of Economy Ministry of maritime affairs, transport and infrastructure | NI |
| MTR-8: Development of sustainable transport systems in urban areas | Transport | CO ₂ | Modal shift to public transport or non- motorized transport Demand management/reduction | Other (Planning) | Implemented | Traffic and need for mobility is one of the biggest pressures on the environment in urban areas. Increase in the number of passenger cars, the way they are used, intensity of traffic and unstructured expansion of urban areas largely reversed technological progress in relation to the energy efficiency of vehicles and emission intensity, including noise. With this measure, a gradual development of sustainable transport systems in urban areas of Croatia is provided where Plans for sustainable transport development should be drawn up as basic documents. These plans would include the analysis of the current situation, defining the vision and objectives, impact analysis and the adoption of measures for all types of transportation, distribution of responsibilities, method of implementation and monitoring mechanism. These plans would be brought on the level of major cities, they should be prepared in accordance with the European Commission guidelines and funded through EU programs and funds. | 2017 | Ministry of Environmental and Nature Protection Units of regional and local self-government | N |
| MOS-1: Handling with substances that deplete the ozone layer and fluorinated greenhouse gases* | Industry/industri al processes | SF ₆ , PFCs, HFCs | Reduction of emissions of fluorinated gases Replacement of fluorinated gases by other substances | Regulatory | Implemented | Ban of the release of controlled substances and fluorinated greenhouse gases into the atmosphere during collecting, checking leakage, maintenance or servicing of devices and equipment. | 2014 | Ministry of Environmental and Nature Protection | N |

| Name of mitigation action | a Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation impact (not cumulative, in kt CO ₂ eq) |
|--|--------------------------------------|---------------------------------|--|------------------------------------|--|--|------------------------------|---|---|
| MOS-2: Technical and organizational measures for collecting, recycling, recovering and destroying of controlled substances and fluorinated greenhouse gases* | Industry/industri al processes | PFCs, SF ₆ , HFCs | Reduction of emissions of fluorinated gases | Regulatory | Implemented | This group of measures defines the way in which used controlled substances and fluorinated greenhouse gases contained in products and equipment must be recovered, recycled, reclaimed or destroyed. | 2014 | Centers for collecting, recycling and recovering of controlled substances and fluorinated greenhouse gases | NE |
| MOS-2a: Capacity building and strengthening the knowledge of authorized service technician* | Industry/industri al processes | HFCs, PFCs, SF ₆ | Reduction of emissions of fluorinated gases | Other (Education) | Implemented | Education of authorized servicers responsible for collection of controlled substances and fluorinated greenhouse gases during servicing of devices and equipment and provide it to the Centre for the collection, recycling and recovery of controlled substances and fluorinated greenhouse gases. | 2014 | Ministry of Environmental and Nature Protection | NE |
| MOS-3: Checking the leakage of controlled substances and flourinated greenhouse gases* | Industry/industri al processes | HFCs, PFCs, SF ₆ | Reduction of emissions of fluorinated gases | Regulatory | Implemented | The operator of the device or equipment is required to take all necessary technically feasible measures to prevent leakage as soon as possible to remove all detected leakage and reduce emissions of controlled substances and fluorinated greenhouse gases in the atmosphere. According to the Regulation on substances that deplete the ozone layer and fluorinated greenhouse gases (OG No. 90/14) checking of leakage is obliged for stationary devices and equipment for refrigeration and air conditioning and heating pumps, as well as the fixed fire protection systems. | 2014 | Ministry of Environmental and Nature Protection Operators | NE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigat cumulative, in | |
|--|------------------------------------|--------------------|---------------------------------------|------------------------------------|--|---|------------------------------|--|---------------------------------------|----|
| and reducing the | Waste management/was te | CH ₄ | Demand management / reduction | Economic Regul atory Education | Implemented | Prevention of waste generation is the main principle of waste management, as outlined in the Law on Sustainable Waste Management (OG 94/13) and the Waste Management Strategy of the Republic of Croatia (OG 130/05). Waste Management Plan in the Republic of Croatia for the period 2007 – 2015 (OG 85/07, 126/10, 31/11) was adopted to meet the objectives of the Strategy. This measure should be achieved by cleaner production, education, economic instruments, implementation of regulations on integrated pollution prevention and control and investment in modern technologies. According the Act concerning the conditions of accession of the Republic of Croatia to the European union, quantitative targets and deadlines for reducing the total amount of waste deposited to non-compliant landfills are defined. By the end of 2015, the maximum waste disposed of to the non- compliant landfills amounts 1.21 million tons, by the end of 2016 1.01 million tons and by the end 2017 800,000 tons. Disposal of waste to non-compliant landfills in Croatia is prohibited after 31 December 2017. | 2005 | Units of regional and local self-government | | IE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | <i>Type of</i> <i>instrument</i> ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigat cumulative, in | |
|--|------------------------------------|--------------------|---|--|--|---|------------------------------|--|---------------------------------------|----|
| | Waste management/was te | CH ₄ | Enhanced recycling Reduced landfilling | Other (Regulatory) | Implemented | Except Waste Management Strategy in Croatia, the Waste Framework Directive defines the quantitative targets and deadlines for increasing the amount of separately collected and recycled waste. In accordance with the requirements of the Waste Framework Directive by 2015, it is necessary to ensure separate collection of at least paper, metal, plastic and glass. By 2020, it is necessary to ensure the preparation for re-use and recycling of the following waste materials: paper, metal, plastic and glass from households and possibly from other sources if these waste streams are similar to waste from households, the minimum share of 50% by weight waste. The amounts of separately collected fractions from municipal waste are gradually increasing recently. Collection schemes have been developed for management of six special waste categories - packaging waste, waste oils, end-of-life vehicles, waste electrical and electronic equipment, waste tires, batteries and accumulators. This resulted in increased quantities of collection and recovery of those waste streams. | | Units of regional and local self-government | | IE |

| Name of mitigation act | ion ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigo cumulative, in | |
|---|------------------|------------------------------------|--------------------|---------------------------------------|------------------------------------|--|--|------------------------------|--|--------------------------------------|-----|
| MSP-12: Methane flaring* | | Waste management/was te | CH ₄ | Enhanced CH4 collection and use | Other (Regulatory) | Implemented | The Ordinance on the Methods and Conditions for the Landfill of Waste, Categories and Operational Requirements for Landfills (OG 117/07, 111/11, 17/13, 62/13) and the Ordinance on the Waste Management regulate technical requirements for landfill operation, which reduces possible adverse effects of landfills on the environment. Landfills where landfill gas is generated shall have the system for collection the gas which shall be processed and used. If the collected landfill gas cannot be used for energy generation, it must be flared at the landfill site and the emission of those gases into air has to be prevented. Methane emission into atmosphere is thereby reduced. 4,802 tons of methane is processed at Croatian landfills in 2012, whether it is burned in a flare or used for electricity generation. Collection of data on the quantity of landfill gas captured/flared/recovered is done on the basis of request from Croatian Environment Agency sent by letter to operators of landfills which reported gas capture to Landfill Inventory and Environmental Pollution Register. Methane that is recovered and burned in a flare (without energy recovery) is subtracted from generated methane in the framework of emission estimation. | | Units of regional and local self-government | | 145 |
| MSP-13: Reducing the amount of landfilled biodegradable municipal waste* | | Waste management/was te | CH ₄ | Reduced landfilling | Regulatory | Implemented | The aim of this measure is to reduce the amount of biodegradable fraction of waste disposed at landfills, thus reducing methane emissions resulting from anaerobic decomposition of waste. Pursuant to the Low on Sustainable Waste Management, quantitative targets related to the reduction of biodegradable municipal waste going to landfills are established. By the end of 2016, the share of biodegradable municipal waste going to landfills must be reduced to 50% weight of biodegradable municipal waste produced in 1997, until the end of 2020 the share of biodegradable municipal waste going to landfills must be reduced to 35% weight of biodegradable municipal waste generated in 1997. Reducing the biodegradable fraction of waste going to the landfills results in reduced emissions of methane, which would otherwise occurred during the process of anaerobic decomposition of waste in landfills. | | Units of regional and local self-government | | IE |

| Name of mitigation acti | ion ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | |
|---|------------------|--|-----------------------------------|---|------------------------------------|--|--|------------------------------|--|--------------------------------------|----|
| MSP-14: Production of fuel from waste and processing of waste for use in the cement industry* | | Energy, Industry/industri al processes, Waste management/was te | CH ₄ , CO ₂ | Improved treatment technologies Switch to less carbon- intensive fuels Increase in renewable energy Installation of abatement technologies | Other (Regulatory) | Implemented | The measure is related to the measures in Energy sector means of which the fossil fuels to generate electricity and heat as well as for the cement production in rotary kilns is replaced by the fuel from waste. Production of fuels from waste by mechanical-biological treatment of municipal waste in regional and county waste management centres is planned. Using biodegradable fraction of waste as fuel togenerate electricity and heat as well as in the cement industry is important from the standpoint of reducing greenhouse gas emissions, conservation primary energy sources and reducing the amount of waste is considered to be neutral with respect to carbon dioxide. Reduction of methane emissions will be achieved by reducing the amount of landfilled biodegradable waste. | | Units of regional and local self-government | | NE |
| MSP-15: Use of biogas for electricity and heat generation* | | Waste management/was te, Energy | CH ₄ , CO ₂ | Increase in renewable energy Switch to less carbon- intensive fuels Enhanced CH4 collection and use Waste incineration with energy use | Other (Regulatory) | Implemented | The measure is associated with measure MEN-9 Usage of biodegradable fraction of waste in public electricity and heating plants. The main mechanism for promoting implementation of biogas for electricity generation and to encourage the construction of biogas cogeneration plants are incentive prices (tariffs) that depend on the installed electric power of the plant. Looking at the waste management sector, the potential reduction in greenhouse gas emissions of these measures is the potential to reduce methane emissions (resulting from the anaerobic decomposition of the biodegradable fraction of waste), which is used to generate electricity and heat. | | Units of regional and local self-government | | IE |
| MSP-16: Thermal treatment of municipal waste and sludge from wastewater treatment plants | | Energy, Waste management/was te | CH ₄ , CO ₂ | Increase in renewable energy Switch to less carbon- intensive fuels Enhanced CH4 collection and use Waste incineration with energy use | Economic | Planned | Construction of a facility for thermal processing of municipal waste in the city of Zagreb is planned in which around 300,000 tonnes of municipal waste and around 70,000 tonnes of dried sludge from the "Central waste water treatment plant" would be processed annually at the facility by 2020. Thermal treatment of municipal waste and sludge from wastewater treatment plant is important from the standpoint of conservation primary energy sources, reducing the amount of waste going to landfills and reducing greenhouse gas emissions. | 2020 | City of Zagreb | | 34 |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity affected</i> | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | ation impact (not n kt CO ₂ eq) |
|--|------------------------------------|------------------------------------|--|------------------------------------|--|--|---------------------------------|--|--------------------------------------|---|
| MSP-4: Development of the assessment of implementation of GHG emission reduction measures in the agriculture sector | Agriculture | CH ₄ , N ₂ O | Reduction of fertilizer/manure use on cropland Other activities improving cropland management Improved livestock management Improved animal waste management systems Activities improving grazing land or grassland management Improved management of organic soils | | | Development of this assessment is recommended with the goal of valorization of middle-term period acceptability of potential emission reduction measures that imply various social and economical risks for farmers. Possible measures to be analyzed are: - change of cattle feeding regime and improvement of cattle feed with the goal of reducing methane emission from manure management and enteric fermentation - anaerobic decomposition and biogas manufacturing - improvement of nitrogen use efficiency with the goal of reducing N2O emissions from synthetic and organic fertilizer use - carbon capture in agricultural soil. | 2016 | Ministry of agriculture Ministry of Environmental and Nature Protection | | NE |

| Name of mitigation action | a Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, ir | |
|--|--------------------------------------|-----------------------------------|--|------------------------------------|--|--|------------------------------|------------------------------------|--------------------------------------|----|
| MSP-4a: Rural Development Programme of the Republic of Croatia for the Period 2014-2020* | Agriculture, Forestry/LULUC F | CH ₄ , CO ₂ | Other activities improving cropland management Improved livestock management Reduction of fertilizer/manure use on cropland Improved animal waste management systems Activities improving grazing land or grassland management Improved management of organic soils | Other (Economic) | Adopted | One of the principal areas of institutional work of the European Union is the Common Agricultural Policy (CAP). Rural developement, as a second CAP tier, is financed through the Agricultural Fund for Rural Development (EAFRD). Development of the Rural Development Programme of the Republic of Croatia is a prerequisite for the EAFRD eligibility in the next period. Goals set by the Europe 2020 Strategy are also evident withing three CAP goals: agriculture competitivness, sustainable resource management and balanced development of rural areas. Rural Development Programme should achieve the goals set by CAP through measures given in six priorities: - Promotion of knowledge and innovation transfers in agriculture, forestry and rural areas - Improvements in sustainability and competitivness in agriculture, forestry and rural areas - Promotion of food provision chain, including processing and market placement of agricultural products, animal welfare and risk management - Revitalization, protection and improvement of agriculture and forestry related ecosystems - Promotion of resource efficiency and encouraging of the shift to low-carbon farming, resilient to climate changes in the agriculture, food and forestry sectors - Promotion of social involvement, combating poverty through economical development of rural areas. | 2015 | Ministry of agriculture | | 68 |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigat cumulative, in | - |
|--|------------------------------------|--------------------|---|------------------------------------|---------------------------------------|--|------------------------------|--|---------------------------------------|----|
| MSP-5: Improving the reporting from LULUCF sector* | Forestry/LULUC F | | Conservation of carbon in existing forests Afforestation and reforestation Enhancing production in existing forests Enhanced forest management Increasing the harvested wood products pool Prevention of deforestation Strengthening protection against natural disturbances Substitution of GHG- intensive feedstocks and materials with harvested wood products Prevention of drainage or rewetting of wetlands Restoration of degraded lands | Regulatory | Implemented | Annex I countries United Nations Framework Convention on Climate Change, including the Croatian, are obligated in accordance with Annex I to Decision 15/CP.17 continuously review the quality of the relevant technical elements of GHG inventory. Because of this commitment, and because of the fact that additional improvements to the procedure for determining the changes in carbon stocks in LULUCF sector need to be done for each store separately, as well as the procedure for more detailed matrix of land, the implementation of these measures is still considered necessary. For the implementation of this measure, during 2014, the Ministry of Environmental and Nature Protection launched two projects from the LULUCF sector that are currently in the final stages of implementation. These are: Improving the reporting in the sector Land use, land-use change and forestry during the first commitment period of the Kyoto Protocol' (abbreviated as LULUCF 1) and 'Upgrade of the National System for reporting on greenhouse gas emissions for the implementation of the Decision of the European Parliament and of the Council No. 529/2013 of 21 May 2013 on accounting rules on greenhouse gas emissions and removals resulting from activities relating to land use, land-use change and forestry and on information concerning actions relating to those activities' (abbreviated as LULUCF 2). Since the land matrix represents the basis for the calculation of sinks/emissions of greenhouse gases in the LULUCF sector, the LULUCF 2 project includes defining the national system for determining the cover, use and conversion of all land categories, as well as the development of the new project proposal that would put the newly defined system into operation. | | Ministry of Environmental and Nature Protection Ministry of agriculture | | NE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | <i>Type of</i> instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation cumulative, in kt C | |
|--|------------------------------------|--------------------|---|---|--|---|------------------------------|--|---|----|
| MSP-6: Preparation of cost-benefit analysis of afforestation on new areas and natural regeneration of forests as a measure of increasing sinks in LULUCF sector | Forestry/LULUC F | CO2 | Afforestation and reforestation Conservation of carbon in existing forests Enhancing production in existing forests Enhanced forest management Prevention of deforestation Increasing the harvested wood products pool Strengthening protection against natural disturbances Substitution of GHG- intensive feedstocks and materials with harvested wood products Prevention of drainage or rewetting of wetlands Restoration of degraded lands | Research | Planned | Changes in the sinks of greenhouse gases as a result of direct land use change caused by human activity and forestry activities are allowed to calculate in the national balance of emissions and sinks of greenhouse gases and used to fulfill obligations under the Kyoto Protocol. By analyzing the costs and benefits of afforestation on the new areas possibility of increasing greenhouse gas sinks using reforestation activities on the barren productive forest floor will be investigated. Thus would justify introduction of possible incentive measures, such as the afforestation of fast-growing species and natural regeneration of forests, equivalent to measures for greenhouse gas emissions reduction. The implementation of this activity was determined in the Plan for Air Protection, Ozone Layer Protection and Climate Change Mitigation for the period 2013-2017 (OG 139/13), and its implementation is planned for 2015. | | Ministry of Environmental and Nature Protection Ministry of agriculture | | NE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigat cumulative, in | - |
|--|------------------------------------|--------------------|---|------------------------------------|--|---|------------------------------|--|---------------------------------------|----|
| MSP-7: Revision of Forest Management Reference Level (FMRL) under Article 3.4 of the Kyoto Protocol for the second commitment period | Forestry/LULUC F | CO2 | Afforestation and reforestation Conservation of carbon in existing forests Enhancing production in existing forests Increasing the harvested wood products pool Enhanced forest management Prevention of deforestation Strengthening protection against natural disturbances Substitution of GHG- intensive feedstocks and materials with harvested wood products Prevention of drainage or rewetting of wetlands Restoration of degraded lands | Regulatory | Implemented | For the second commitment period of the Kyoto Protocol new rules for the calculation of sinks generated from forest management under which the outflow is calculated relative to the Forest Management Reference Level (FMRL) were adopted. In addition, obligation of revision of reference levels for forest management activities in accordance with the correction in the national inventory is introduced and it is necessary to determine the new value of the reference level for Croatia. For the purpose of implementing this measure, as part of the launched project LULUCF 1, a review of the established value for FMRL is planned and the first technical correction of FMRL for the Republic of Croatia will be performed and later presented in NIR 2015. According to currently available information, by the end of the Second commitment period it will be necessary to perform another technical correction of FMRL considering that further improvements of the LULUCF sector calculation are planned for this period. | | Ministry of Environmental and Nature Protection Ministry of agriculture | | NE |

| Name of mitigation action | a Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, in | |
|--|--------------------------------------|--------------------|---|------------------------------------|--|---|------------------------------|--|--------------------------------------|----|
| MSP-8: Development of Action plan for LULUCF sector* | Forestry/LULUC F | CO2 | Afforestation and reforestation Conservation of carbon in existing forests Enhancing production in existing forests Increasing the harvested wood products pool Prevention of deforestation Enhanced forest management Substitution of GHG- intensive feedstocks and materials with harvested wood products Strengthening protection against natural disturbances Prevention of drainage or rewetting of wetlands Restoration of degraded lands | Regulatory | Implemented | According to the Decision 529/2013/EU, as a member of the European Union, Croatia is obliged to prepare and submit information from the forestry sector to the Commission in accordance with Article 10 of Decision 529/2013/EU. The plan was drafted and submitted to the EC on January 9th 2015, and will form an integral part of the national strategy for low carbon development. As part of the action plan defined are measures for maintaining/reducing emissions and maintaining/increasing sinks of greenhouse gases that occur as a result of implementation of activities of forest management, cropsland management, grazing land management, and implementation of afforestation and deforestation. The basis for the preparation of the aforementioned document was the draft of Rural Development Programme of the Republic of Croatia for the period 2014-2020 (the document is in the process of harmonization with the European Commission) to define the measures in the forestry sector as well as to define the measures associated with agricultural land use categories. During the document preparation, used were data and information available in the National Inventory Report on Greenhouse Gas Emissions for the Republic of Croatia (NIR 2014), as well as the data and information available in a number of different strategic documents, national regulations (e.g. Ordinance on cross- compliance OG 27/14) and the European Commission Guidance , which was created in order to assist Member States in fulfilling the obligations defined under Article 10 of the Decision 529/2013/EU. In order to address future activities within the low-carbon development strategy it should be noted that the Air Protection Act (OG 130/11, 47/14) stipulates the obligation of adopting the Low-Carbon Development Strategy of the Republic of Croatia, which ensures a long-term economic and social development towards a low-GHG emission society. Low-Carbon Development | | Ministry of Environmental and Nature Protection Ministry of agriculture | | NE |

| Name of mitigation act | tion ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigatic cumulative, in the second sec | |
|---|-------------------|---|---|--|------------------------------------|--|--|------------------------------|--|--|----|
| MSP-18: CO2 emission tax* | | Energy, Cross- cutting, Industry/industri al processes | CO2 | Framework policy Efficiency improvement in industrial end-use sectors Installation of abatement technologies | Fiscal | Implemented | The Regulation on Unit Charges, Corrective Coefficients and Detailed Criteria and Benchmarks for Determination of the Charge for Emissions into Environment of Carbon Dioxide (OG 73/07, 48/09) stipulates the obligation to pay charges on CO2 emission for all stationary sources emitting more than 30 tonnes of CO2 per year. Fee payers who invest in energy efficiency, renewable energy and other measures to reduce emissions of CO2 and other greenhouse gas emissions are charged by lower fee. The Environmental Protection and Energy Efficiency Fund is authorized for accounting and collecting charges. The Law on Amendments to the Law on Environmental Protection and Energy Efficiency Fund (OG 142/12) stipulates that from 1 January 2013 legal or natural persons who own or use a single source of CO2 emissions, for which permits for greenhouse gas emissions have been obtained, do not have to pay fee. This means that from 2013 onwards measures apply only to sources that are not covered by the ETS. The amount of compensation paid by the operators of installations excluded from the EU ETS is defined by the Decision on the amount of the unit charge on greenhouse gas emissions for operators of installations excluded from emissions trading system for 2013 (OG 105/14). | | Ministry of Environmental and Nature Protection Environmental protection and energy efficiency fund | | NE |
| MSP-19: Establishment of the Committee for cross-sectoral coordination of policies and measures for mitigation and adaptation to climate change* | | Cross-cutting | CH ₄ , CO ₂ , HFCs, N ₂ O, PFCs, SF ₆ | Multi-sectoral policy | Regulatory | Implemented | In accordance with the Air Protection Act (OG 130/11, 47/14), for monitoring and evaluation of the implementation and planning of policies and measures for mitigation and adaptation to climate change in the Republic of Croatia, the Commission for inter- sectoral coordination of policies and measures for mitigation and adaptation to climate change (OG 114/14) was established. The committee members include representatives of relevant government bodies and other relevant organizations, agencies and non-governmental organizations. The Committee members, activities and functioning of the Commission is determined by the Croatian Government on the proposal of the ministry responsible for environmental protection. | 2014 | Ministry of Environmental and Nature Protection, competent ministries | | NE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigation important cumulative, in kt CO $_2$ | |
|---|------------------------------------|---|--|------------------------------------|--|---|------------------------------|--|--|----|
| MSP-17: Establishment of monitoring, reporting and verification of greenhouse gas emissions in the lifetime of liquid fuels* | Cross-cutting, Transport | CO ₂ | Efficiency improvements of vehicles Framework policy | Regulatory | Implemented | In accordance with the Air Protection Act (OG 130/11, 47/14), supplier that places the fuel on domestic market shall monitor greenhouse gas emissions per energy unit in the life of the fuel. Suppliers have to draw up a report that has to be verified and submitted to the Environmental Protection Agency. Regulation on the quality of liquid petroleum fuels (OG 113/13, 76/14) defines limit values for components and quality characteristics of liquid petroleum fuels, the method of determining and monitoring the quality of liquid petroleum fuels, method of conformity, the conditions for the operation of laboratories for sampling and laboratory analysis of quality liquid petroleum fuels, product labeling and the method and deadline for preparation and submission of reports on the quality of liquid petroleum fuels to the Environmental Protection Agency. | 2012 | Ministry of Environmental and Nature Protection Ministry of economy Croatian Environment Agency | | NE |
| MSP-20: Intensifying the use of innovative information and communication technologies (ICT) to reduce greenhouse gas emissions* | Cross-cutting | CH ₄ , CO ₂ , HFCs, N ₂ O, PFCs, SF ₆ | Framework policy | Information | Adopted | Innovative information and communication technologies have an increasingly important role in reducing greenhouse gas emissions and increasing energy efficiency. Intensifying their use in public administration, services and manufacturing processes, will boost productivity and work efficiency and at the same time will reduce energy consumption and consequent greenhouse gas emissions. The measure is expected to intensify the use of innovative ICT and monitoring of actual energy savings and reductions of greenhouse gas emissions. Among others, examples of the implementation of this measure are: - System for the Measurement and Verification of Energy Savings (SMIV, 2014), which will monitor the energy savings and resultant reduction of greenhouse gas emissions, was presented by the Ministry of Economy, - Information System for Energy Management (ISGE), which is supported and established by the UNDP, GEF, the Fund and the Croatian Government is used for public buildings and is administered by the Agency for Transactions and Mediation in Immovable Properties (APN). | 2011 | Ministry of Environmental and Nature Protection Croatian Environment Agency | | NE |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | Objective and/or activity affected | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitiga cumulative, ir | |
|---|---|--|---|---|--|---|------------------------------|---|--------------------------------------|------|
| Waste - group* | management/was te Enhanced recycling Reduced landfilling MSP muni The r in thi | | This group of measures includes measures: MSP-9: Prevention of and reducing the amount of municipal waste MSP-10 Increasing the amount of separately collected and recycled municipal waste MSP-13: Reducing the amount of landfilled biodegradable municipal waste The mitigation potential of abovementioned measures is included in this group of measures. | 2005/2016 | Units of regional and local self-government | | 464 | | | |
| Energy efficiency measures in WEM scenario* | Energy, Transport | CH ₄ , CO ₂ , N ₂ C | | atory Information Fiscal Education Other (Planning) | - | MEN-1 Promotion of energy efficiency in households and services | | Ministry of Economy Ministry of Construction and Physical Planning Ministry of Environmental and Nature Protection Distributing companies Environmental protection and energy efficiency fund ESCO companies Ministry of Interior Croatian Bank for Reconstruction and Development Units of regional and local self-government | | 1229 |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigati cumulative, in l | - · |
|--|--|--------------------|---|------------------------------------|--|--|------------------------------|--|--|------|
| Renewable energy in WEM scenario* | Energy, Waste management/was te, Transport | | Increase in renewable energy Switch to less carbon- intensive fuels Enhanced CH4 collection and use Waste incineration with energy use Efficiency improvements of buildings Efficiency improvement of appliances Efficiency improvement in services/ tertiary sector Efficiency improvement in industrial end-use sectors Demand management/reduction Improved behaviour Low carbon fuels/electric cars | | Implemented | Incorporates estimated mitigation potential of measures to support renewable energy sources in WEM scenario: MEN-7 Supporting the use of renewable energy sources in electricity generation, MEN-9 Usage of biodegradable fraction of municipal waste in public electricity and heating plants, MEN-12 Promotion of the use of renewable energy sources and energy efficiency by HBOR-a (Croatian Bank for Reconstruction and Development), MEN-13 Promotion of the use of renewable energy sources and energy efficiency by FZOEU (The Environmental Protection and Energy Efficiency Fund) resources, MTR-4: Promotion of production and use of biofuels in transport MSP-15: Use of biogas for electricity and heat generation In WEM scenario the measures to support RES until 2020 are included in accordance with The National Action Plan for RES until 2020. In WAM scenario it assumed that the measures will be continued after 2020 in accordance with the goals set in Green Book of Energy Development Strategy for Croatia. | 012 | Ministry of Economy Ministry of Environmental and Nature Protection Environmental protection and energy efficiency fund Ministry of Economy | | 4325 |

| Name of mitigation action ^a | Sector(s) affected ^b | GHG(s) affected | <i>Objective and/or activity</i> <i>affected</i> | Type of instrument ^c | Status of implementation ^d | Brief description ^e | Start year of implementation | Implementing entity or entities | Estimate of mitigat cumulative, in | - · |
|--|------------------------------------|--|---|---|--|--------------------------------|------------------------------|---|---------------------------------------|------|
| Energy efficiency measures in WAM scenario | Energy, Transport | CH ₄ , CO ₂ , N ₂ O | Efficiency improvement in | atory Information Education Fiscal Other (Planning) | - | | 011/2014/2017 | Ministry of Economy Ministry of Construction and Physical Planning Distributing companies Environmental protection and energy efficiency fund ESCO companies Ministry of Environmental and Nature Protection Ministry of Interior Croatian Bank for Reconstruction and Development Units of regional and local self-government | | 2553 |

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

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

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

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

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

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

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

^{*f*} Optional year or years deemed relevant by the Party.

Custom Footnotes

Table 4Reporting on progress

| | Total emissions excluding LULUCF | Contribution from LULUCF ^d | Quantity of units f mechanisms unde | from market based er the Convention | Quantity of units from other market ba mechanisms | | |
|-------------------|-------------------------------------|--|---|--|--|--------------------|--|
| Year ^c | $(kt \ CO_2 \ eq)$ | $(kt \ CO_2 \ eq)$ | (number of units) (kt CO ₂ eq) | | (number of units) | $(kt \ CO_2 \ eq)$ | |
| (1990) | 35,115.98 | | | | | | |
| 2010 | 28,326.05 | | | | | | |
| 2011 | 27,719.29 | | | | | | |
| 2012 | 25,505.09 | | | | | | |
| 2013 | 24,492.78 | | | | | | |
| 2014 | | | | | | | |

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

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

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

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

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

Custom Footnotes

Table 4(a)I

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

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

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

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

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

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

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

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

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

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

Custom Footnotes

Table 4(a)I

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

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

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

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

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

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

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

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

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

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

Custom Footnotes

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

Table 4(b) **Reporting on progress^{a, b, c}**

| | Unite of market has a due of minute | | Ye | ear |
|--------------------|--|---|------|------|
| | Units of market based mechanisms Kyoto Protocol units AAUs ERUs CERs tCERs ICERs Units from market-based mechanisms under th Convention Units from other market-based mechanisms | | 2013 | 2014 |
| | Kunda Durata ad umita | (number of units) | | |
| | Kyoto Protocol units | $(kt CO_2 eq)$ | | |
| Tyoto E | | (number of units) | | |
| | AAUs | (kt CO2 eq) | | |
| iyoto E rotocol | | (number of units) | | |
| | ERUS | (kt CO2 eq) | | |
| | | (number of units) | | |
| t | CERs | (kt CO2 eq) | | |
| | 000 | (number of units) $(ht CO_2 eq)$ $(ht CO_2 eq)$ $(humber of units)$ $(humber of units)$ $(ht CO2 eq)$ $(number of units)$ $(ht CO2 eq)$ $(number of units)$ $(ht CO2 eq)$ $(humber of units)$ $(ht CO2 eq)$ $(ht CO2 eq)$ $(ht CO2 eq)$ $(humber of units)$ $(ht CO2 eq)$ $(ht CO_2 eq)$ $(ht CO_2 eq)$ $(humber of units)$ $(ht CO_2 eq)$ $(humber of units)$ $(ht CO_2 eq)$ $(ht CO_2 eq)$ $(ht CO_2 eq)$ $(ht CO_1 eq)$ $(ht CO_2 eq)$ $(ht CO_2 eq)$ $(ht CO_2 eq)$ $(ht CO_1 eq)$ $(ht CO_2 eq)$ <td></td> | | |
| | tCERs | (kt CO2 eq) | | |
| | 1000 | (number of units) | | |
| | ICERs | (kt CO2 eq) | | |
| | Units from market-based mechanisms under the | (number of units) | | |
| | Convention | $(kt \ CO_2 \ eq)$ | | |
| Other units | | | | |
| d,e | | (number of units) | | |
| | Units from other market-based mechanisms | | | |
| | | | | |
| | 1 | (number of units) | | |
| Fotal | | $(kt CO_2 eq)$ | | |

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

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

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

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

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

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

Custom Footnotes

Use of CER and ERU cannotbe quantified at the time of reporting

Table 5

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

| Key underlying a | ssumptions | | Historical ^b | | | | | | | | Projected | | |
|--------------------------|------------|----------|-------------------------|----------|----------|----------|----------|----------|------|----------|-----------|----------|--|
| Assumption | Unit | 1990 | 1995 | 2000 | 2005 | 2010 | 2011 | 2012 | 2015 | 2020 | 2025 | 2030 | |
| Population | thousands | 4,778.00 | 4,659.00 | 4,497.00 | 4,311.00 | 4,303.00 | 4,289.86 | 4,275.98 | NE | 4,198.88 | 4,145.28 | 4,087.04 | |
| GDP growth rate | % | NE | NE | 3.80 | 4.20 | -1.70 | -0.30 | -2.20 | NE | 1.90 | 1.90 | 1.70 | |
| International oil price | EUR/GJ | NE | NE | NE | NE | NE | NE | 9.30 | NE | 13.70 | 13.80 | 14.40 | |
| International coal price | EUR/GJ | NE | NE | NE | NE | NE | NE | 2.50 | NE | 3.50 | 3.70 | 3.70 | |
| International gas price | EUR/GJ | NE | NE | NE | NE | NE | NE | 5.90 | NE | 9.50 | 9.10 | 10.00 | |
| Number of households | thousands | NE | 1,518.00 | 1,477.00 | 1,494.00 | 1,515.00 | 1,519.00 | 1,519.00 | NE | 1,520.50 | 1,533.70 | 1,545.40 | |
| Population growth | % | NE | -0.50 | -0.70 | -0.83 | -0.04 | -0.31 | -0.32 | NE | -0.20 | -0.30 | -0.30 | |
| EU ETS carbon price | EUR/EUA | NA | NA | NA | NE | NE | NE | 5.80 | NE | 10.00 | 14.00 | 35.00 | |

^{*a*} Parties should include key underlying assumptions as appropriate.

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

Custom Footnotes

Population census is every 10 years, last was 2011. Numbers between are estimated as arithmetic mean

Table 6(a)

HRV_BR2_v1.0

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

| | | | GHG emis | sions and rem | ovals ^b | | | GHG emission | 1 projections |
|---|---------------------|-----------|-----------|---------------|--------------------|-----------|-----------|--------------|---------------|
| | | | (| $kt CO_2 eq)$ | | | | (kt CO | 2 eq) |
| | Base year (1990) | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | 2020 | 2030 |
| Sector ^{d,e} | | | | | | | | | |
| Energy | 20,870.56 | 20,870.56 | 14,439.01 | 15,213.53 | 17,372.08 | 15,056.95 | 12,373.02 | 19,148.05 | 22,105.62 |
| Transport | 4,032.07 | 4,032.07 | 3,419.16 | 4,525.56 | 5,581.55 | 5,978.36 | 5,749.69 | 5,474.89 | 6,402.95 |
| Industry/industrial processes | 4,852.60 | 4,852.60 | 2,572.87 | 3,291.57 | 3,776.88 | 3,591.27 | 2,812.59 | 2,522.97 | 2,895.73 |
| Agriculture | 4,766.50 | 4,766.50 | 3,486.55 | 3,208.67 | 3,088.88 | 2,526.14 | 2,317.95 | 3,355.40 | 3,704.46 |
| Forestry/LULUCF | -5,536.67 | -5,536.67 | -8,431.47 | -7,162.09 | -6,996.63 | -6,260.34 | -5,125.18 | -8,298.47 | -8,426.85 |
| Waste management/waste | 594.24 | 594.24 | 673.47 | 799.76 | 909.89 | 1,173.33 | 1,239.53 | 1,245.03 | 981.08 |
| Other (specify) | | | | | | | | | |
| Gas | | | | | | | | | |
| CO ₂ emissions including net CO ₂ from LULUCF | 18,530.88 | 18,530.88 | 8,878.42 | 12,743.58 | 16,746.51 | 15,160.49 | 13,481.96 | 10,855.75 | 13,753.59 |
| CO ₂ emissions excluding net CO ₂ from LULUCF | 24,074.30 | 24,074.30 | 17,326.48 | 20,073.72 | 23,753.49 | 21,432.05 | 18,620.85 | 19,154.22 | 22,180.44 |
| CH ₄ emissions including CH ₄ from LULUCF | 6,954.12 | 6,954.12 | 4,959.49 | 4,456.44 | 4,156.24 | 4,038.47 | 3,582.93 | 3,934.92 | 4,068.37 |
| CH ₄ emissions excluding CH ₄ from LULUCF | 6,952.89 | 6,952.89 | 4,951.94 | 4,359.53 | 4,153.50 | 4,036.71 | 3,581.00 | 3,934.92 | 4,068.37 |
| N ₂ O emissions including N ₂ O from LULUCF | 2,843.63 | 2,843.63 | 2,253.28 | 2,466.14 | 2,430.75 | 2,313.81 | 1,718.35 | 2,602.82 | 2,809.09 |
| N ₂ O emissions excluding N ₂ O from LULUCF | 2,838.10 | 2,838.10 | 2,244.23 | 2,395.00 | 2,423.13 | 2,304.36 | 1,706.58 | 2,602.82 | 2,809.09 |
| HFCs | NO | NO | 57.28 | 199.21 | 386.12 | 543.95 | 577.71 | 569.10 | 616.76 |
| PFCs | 1,240.24 | 1,240.24 | NO | NO | NO | 0.03 | 0.06 | NA | NA |
| SF ₆ | 10.45 | 10.45 | 11.12 | 11.62 | 13.03 | 8.95 | 6.58 | 10.39 | 12.22 |
| Other (specify) | | | | | | | | | |
| Total with LULUCF ^f | 29,579.32 | 29,579.32 | 16,159.59 | 19,876.99 | 23,732.65 | 22,065.70 | 19,367.59 | 17,972.98 | 21,260.03 |
| Total without LULUCF | 35,115.98 | 35,115.98 | 24,591.05 | 27,039.08 | 30,729.27 | 28,326.05 | 24,492.78 | 26,271.45 | 29,686.88 |

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

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

Table 6(a)

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

| | | | GHG emi | ssions and ren | novals ^b | | | GHG emissio | on projections |
|---|---------------------|------|---------|----------------|---------------------|------|------|-------------------------|----------------|
| | | | | $(kt CO_2 eq)$ | | | | (kt CO ₂ eq) | |
| В | Base year (1990) | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | 2020 | 2030 |

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

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

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

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

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

Custom Footnotes

Totals values have been overwritten, updated values are marked with an asterisk(*) next to them. Please update the table accordingly to match the totals.

Table 6(b)

Information on updated greenhouse gas projections under a 'without measures' scenario^a

| | | | GHG emis | ssions and rem | ovals ^b | | | GHG emissior | n projections |
|---|---------------------|-----------|-----------|----------------|--------------------|-----------|-----------|--------------|------------------|
| | | | (| $(kt CO_2 eq)$ | | | | (kt CO | ₂ eq) |
| | Base year (1990) | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | 2020 | 2030 |
| Sector ^{d,e} | | | | | | | | | |
| Energy | 20,870.56 | 20,870.56 | 14,439.01 | 15,213.53 | 17,372.08 | 15,056.95 | 12,373.02 | 24,701.28 | 28,656.51 |
| Transport | 4,032.07 | 4,032.07 | 3,419.16 | 4,525.56 | 5,581.55 | 5,978.36 | 5,749.69 | 5,932.61 | 6,845.27 |
| Industry/industrial processes | 4,852.60 | 4,852.60 | 2,572.87 | 3,291.57 | 3,776.88 | 3,591.27 | 2,812.59 | 3,385.47 | 3,921.97 |
| Agriculture | 4,766.50 | 4,766.50 | 3,486.55 | 3,208.67 | 3,088.88 | 2,526.14 | 2,317.95 | 3,423.27 | 3,782.98 |
| Forestry/LULUCF | -5,536.67 | -5,536.67 | -8,431.47 | -7,162.09 | -6,996.63 | -6,260.34 | -5,125.18 | NE | NE |
| Waste management/waste | 594.24 | 594.24 | 673.47 | 799.76 | 909.89 | 1,173.33 | 1,239.53 | 1,854.49 | 2,313.77 |
| Other (specify) | | | | | | | | | |
| Gas | | | | | | | | | |
| CO ₂ emissions including net CO ₂ from LULUCF | 18,530.88 | 18,530.88 | 8,878.42 | 12,743.58 | 16,746.51 | 15,160.49 | 13,481.96 | NE | NE |
| CO ₂ emissions excluding net CO ₂ from LULUCF | 24,074.30 | 24,074.30 | 17,326.48 | 20,073.72 | 23,753.49 | 21,432.05 | 18,620.85 | 24,443.93 | 28,432.30 |
| CH ₄ emissions including CH ₄ from LULUCF | 6,954.12 | 6,954.12 | 4,959.49 | 4,456.44 | 4,156.24 | 4,038.47 | 3,582.93 | NE | NE |
| CH ₄ emissions excluding CH ₄ from LULUCF | 6,952.89 | 6,952.89 | 4,951.94 | 4,359.53 | 4,153.50 | 4,036.71 | 3,581.00 | 5,044.81 | 5,984.59 |
| N ₂ O emissions including N ₂ O from LULUCF | 2,843.63 | 2,843.63 | 2,253.28 | 2,466.14 | 2,430.75 | 2,313.81 | 1,718.35 | NE | NE |
| N ₂ O emissions excluding N ₂ O from LULUCF | 2,838.10 | 2,838.10 | 2,244.23 | 2,395.00 | 2,423.13 | 2,304.36 | 1,706.58 | 3,296.28 | 3,629.36 |
| HFCs | NO | NO | 57.28 | 199.21 | 386.12 | 543.95 | 577.71 | 569.10 | 616.76 |
| PFCs | 1,240.24 | 1,240.24 | NO | NO | NO | 0.03 | 0.06 | NA | NA |
| SF ₆ | 10.45 | 10.45 | 11.12 | 11.62 | 13.03 | 8.95 | 6.58 | 10.39 | 12.22 |
| Other (specify) | | | | | | | | | |
| Total with LULUCF ^f | 29,579.32 | 29,579.32 | 16,159.59 | 19,876.99 | 23,732.65 | 22,065.70 | 19,367.59 | | |
| Total without LULUCF | 35,115.98 | 35,115.98 | 24,591.05 | 27,039.08 | 30,729.27 | 28,326.05 | 24,492.78 | 33,364.51 | 38,675.23 |

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

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

Table 6(b)

Information on updated greenhouse gas projections under a 'without measures' scenario^a

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

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

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

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

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

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

Table 6(c)

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

| | | | GHG emis | rsions and rem | ovals ^b | | | GHG emissior | n projections |
|---|---------------------|-----------|-----------|----------------|--------------------|-----------|-----------|--------------|------------------|
| | | | (| $kt CO_2 eq)$ | | | | (kt CO | ₂ eq) |
| | Base year (1990) | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | 2020 | 2030 |
| Sector ^{d,e} | | | | | | | | | |
| Energy | 20,870.56 | 20,870.56 | 14,439.01 | 15,213.53 | 17,372.08 | 15,056.95 | 12,373.02 | 16,595.10 | 16,887.84 |
| Transport | 4,032.07 | 4,032.07 | 3,419.16 | 4,525.56 | 5,581.55 | 5,978.36 | 5,749.69 | 5,145.48 | 5,878.82 |
| Industry/industrial processes | 4,852.60 | 4,852.60 | 2,572.87 | 3,291.57 | 3,776.88 | 3,591.27 | 2,812.59 | 2,522.97 | 2,895.73 |
| Agriculture | 4,766.50 | 4,766.50 | 3,486.55 | 3,208.67 | 3,088.88 | 2,526.14 | 2,317.95 | 3,355.40 | 3,704.46 |
| Forestry/LULUCF | -5,536.67 | -5,536.67 | -8,431.47 | -7,162.09 | -6,996.63 | -6,260.34 | -5,125.18 | NE | NE |
| Waste management/waste | 594.24 | 594.24 | 673.47 | 799.76 | 909.89 | 1,173.33 | 1,239.53 | 1,245.03 | 981.08 |
| Other (specify) | | | | | | | | | |
| Gas | | | | | | | | | |
| CO ₂ emissions including net CO ₂ from LULUCF | 18,530.88 | 18,530.88 | 8,878.42 | 12,743.58 | 16,746.51 | 15,160.49 | 13,481.96 | NE | NE |
| CO ₂ emissions excluding net CO ₂ from LULUCF | 24,074.30 | 24,074.30 | 17,326.48 | 20,073.72 | 23,753.49 | 21,432.05 | 18,620.85 | 16,824.30 | 17,397.43 |
| CH ₄ emissions including CH ₄ from LULUCF | 6,954.12 | 6,954.12 | 4,959.49 | 4,456.44 | 4,156.24 | 4,038.47 | 3,582.93 | NE | NE |
| CH ₄ emissions excluding CH ₄ from LULUCF | 6,952.89 | 6,952.89 | 4,951.94 | 4,359.53 | 4,153.50 | 4,036.71 | 3,581.00 | 3,726.53 | 3,648.00 |
| N ₂ O emissions including N ₂ O from LULUCF | 2,843.63 | 2,843.63 | 2,253.28 | 2,466.14 | 2,430.75 | 2,313.81 | 1,718.35 | NE | NE |
| N ₂ O emissions excluding N ₂ O from LULUCF | 2,838.10 | 2,838.10 | 2,244.23 | 2,395.00 | 2,423.13 | 2,304.36 | 1,706.58 | 2,588.18 | 2,794.69 |
| HFCs | NO | NO | 57.28 | 199.21 | 386.12 | 543.95 | 577.71 | 569.10 | 616.76 |
| PFCs | 1,240.24 | 1,240.24 | NO | NO | NO | 0.03 | 0.06 | NA | NA |
| SF ₆ | 10.45 | 10.45 | 11.12 | 11.62 | 13.03 | 8.95 | 6.58 | 10.39 | 12.22 |
| Other (specify) | | | | | | | | | |
| Total with LULUCF ^f | 29,579.32 | 29,579.32 | 16,159.59 | 19,876.99 | 23,732.65 | 22,065.70 | 19,367.59 | | |
| Total without LULUCF | 35,115.98 | 35,115.98 | 24,591.05 | 27,039.08 | 30,729.27 | 28,326.05 | 24,492.78 | 23,718.50 | 24,469.10 |

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

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

Table 6(c)

HRV_BR2_v1.0

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

| | | GHG emi | ssions and rer | novals ^b | | | GHG emissio | on projections |
|---------------------|------|---------|--------------------|---------------------|------|------|-------------------------|----------------|
| | | | $(kt \ CO_2 \ eq)$ | | | | (kt CO ₂ eq) | |
| Base year (1990) | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | 2020 | 2030 |

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

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

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

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

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

Table 7 **Provision of public financial support: summary information in 2013**^a

| | | | | | Yee | ar | | | | |
|---|----------------------|------------|-----------------|--------------------------------|--------------------|-------------------------------|--------------------------------------|------------|--------------------------------|---------------------------|
| | | Eur | ropean euro - E | EUR | | | | USD^{b} | | |
| Allocation channels | Core/ | | Climate- | Climate-specific ^d | | | <i>Climate-specific</i> ^d | | | |
| | general ^c | Mitigation | Adaptation | Cross- cutting ^e | Other ^f | Core/ general ^c | Mitigation | Adaptation | Cross- cutting ^e | <i>Other</i> ^f |
| Total contributions through multilateral channels: | 30,260.00 | | | | NO | NO, NE | | | | NO |
| Multilateral climate change funds ^g | NO | | | | NO | NO | | | | NO |
| Other multilateral climate change funds ^h | | | | | | | | | | |
| Multilateral financial institutions, including regional development banks | NO | | | | NO | NO | | | | NO |
| Specialized United Nations bodies | 30,260.00 | | | | | NE | | | | |
| Total contributions through bilateral, regional and other channels | NO | | | 1,796.59 | | NO | | | NE | |
| Total | 30,260.00 | | | 1,796.59 | NO | NO, NE | | | NE | NO |

Abbreviation: USD = United States dollars.

^{*a*} Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

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

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

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

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

^{*f*} Please specify.

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

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

Custom Footnotes

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

Documentation Box:

Table 7 Provision of public financial support: summary information in 2014^a

| | | Year | | | | | | | | | | |
|---|----------------------|------------|----------------|--------------------------------|---------------------------|----------------------|------------|------------|--------------------------------|---------------------------|--|--|
| | | Eur | opean euro - E | EUR | | | | USD^{b} | | | | |
| Allocation channels | Core/ | | Climate- | specific ^d | | Core/ | | Climate- | specific ^d | | | |
| | general ^c | Mitigation | Adaptation | Cross- cutting ^e | <i>Other</i> ^f | general ^c | Mitigation | Adaptation | Cross- cutting ^e | <i>Other</i> ^f | | |
| Total contributions through multilateral channels: | 33,018.00 | | | | NO | NO, NE | | | | NO | | |
| Multilateral climate change funds ^g | NO | | | | NO | NO | | | | NO | | |
| Other multilateral climate change funds ^h | | | | | | | | | | | | |
| Multilateral financial institutions, including regional development banks | NO | | | | NO | NO | | | | NO | | |
| Specialized United Nations bodies | 33,018.00 | | | | | NE | | | | | | |

NO

NO, NE

NO

Abbreviation: USD = United States dollars.

Total contributions through bilateral, regional and other

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

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.

NO

33,018.00

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

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

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

^{*f*} Please specify.

channels

Total

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

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

Custom Footnotes

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

Documentation Box:

NO

Table 7(a)Provision of public financial support: contribution through multilateral channels in 2013^a

| | | Total a | mount | | | | | | |
|---|------------------------|-------------------|------------------------|----------------------|---------------------|-----------------------------|-------------------------|---------------------------------|---------------------|
| Donor funding | Core/gene | eral ^d | Climate-s | pecific ^e | Status ^b | Funding source ^f | Financial | Type of support ^{f, g} | Sector ^c |
| | European euro - EUR | USD | European euro - EUR | USD | Status | 1 unung source | instrument ^f | Type of support | Secior |
| Total contributions through multilateral channels | 30,260.00 | NO, NE | NO | NO | | | | | |
| Multilateral climate change funds ^g | NO | NO | NO | NO | | | | | |
| 1. Global Environment Facility | NO | NO | NO | NO | | | | | |
| 2. Least Developed Countries Fund | NO | NO | NO | NO | | | | | |
| 3. Special Climate Change Fund | NO | NO | NO | NO | | | | | |
| 4. Adaptation Fund | NO | NO | NO | NO | | | | | |
| 5. Green Climate Fund | NO | NO | NO | NO | | | | | |
| 6. UNFCCC Trust Fund for Supplementary Activities | NO | NO | NO | NO | | | | | |
| 7. Other multilateral climate change funds | | | | | | | | | |
| Multilateral financial institutions, including regional development banks | NO | NO | NO | NO | | | | | |
| 1. World Bank | NO | NO | NO | NO | | | | | |
| 2. International Finance Corporation | NO | NO | NO | NO | | | | | |
| 3. African Development Bank | NO | NO | NO | NO | | | | | |
| 4. Asian Development Bank | NO | NO | NO | NO | | | | | |
| 5. European Bank for Reconstruction and Development | NO | NO | NO | NO | | | | | |
| 6. Inter-American Development Bank | NO | NO | NO | NO | | | | | |
| 7. Other | | | | | | | | | |
| Specialized United Nations bodies | 30,260.00 | NE | | | | | | | |
| 1. United Nations Development Programme | | | | | | | | | |
| 2. United Nations Environment Programme | | | | | | | | | |
| 3. Other | 30,260.00 | NE | | | | | | | |
| membership fees | 30,260.00 | NE | | | | | | Other () | |

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

^{*a*} Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

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

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

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

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

^f Please specify.

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

Custom Footnotes

Table 7(a) **Provision of public financial support: contribution through multilateral channels in 2014**^a

| | | Total a | mount | | | | | | |
|---|------------------------|-------------------|------------------------|----------------------|---------------------|-----------------------------|-------------------------|---------------------------------|---------------------|
| Donor funding | Core/gen | eral ^d | Climate-s | pecific ^e | Status ^b | Funding source ^f | Financial | Type of support ^{f, g} | Sector ^c |
| Donor junung | European euro - EUR | USD | European euro - EUR | USD | Siaius | Funding source | instrument ^f | 1 ype of support | Secior |
| Total contributions through multilateral channels | 33,018.00 | NO, NE | NO | NO | | | | | |
| Multilateral climate change funds ^g | NO | NO | NO | NO | | | | | |
| 1. Global Environment Facility | NO | NO | NO | NO | | | | | |
| 2. Least Developed Countries Fund | NO | NO | NO | NO | | | | | |
| 3. Special Climate Change Fund | NO | NO | NO | NO | | | | | |
| 4. Adaptation Fund | NO | NO | NO | NO | | | | | |
| 5. Green Climate Fund | NO | NO | NO | NO | | | | | |
| 6. UNFCCC Trust Fund for Supplementary Activities | NO | NO | NO | NO | | | | | |
| 7. Other multilateral climate change funds | | | | | | | | | |
| Multilateral financial institutions, including regional development banks | NO | NO | NO | NO | | | | | |
| 1. World Bank | NO | NO | NO | NO | | | | | |
| 2. International Finance Corporation | NO | NO | NO | NO | | | | | |
| 3. African Development Bank | NO | NO | NO | NO | | | | | |
| 4. Asian Development Bank | NO | NO | NO | NO | | | | | |
| 5. European Bank for Reconstruction and Development | NO | NO | NO | NO | | | | | |
| 6. Inter-American Development Bank | NO | NO | NO | NO | | | | | |
| 7. Other | | | | | | | | | |
| Specialized United Nations bodies | 33,018.00 | NE | | | | | | | |
| 1. United Nations Development Programme | | | | | | | | | |
| 2. United Nations Environment Programme | | | | | | | | | |
| 3. Other | 33,018.00 | NE | | | | | | | |
| membership fees | 33,018.00 | NE | | | | | | Other () | |

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

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

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

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

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

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

^f Please specify.

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

Custom Footnotes

Table 7(b)

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

| | Total a | mount | | | | | | |
|---|------------------------|------------------------------|---------------------|--------------------------------|--------------------------------------|---------------------------------|---------------------|-------------------------------------|
| Recipient country/ region/project/programme ^b | Climate-s | <i>specific</i> ^f | Status ^c | Funding source ⁸ | Financial instrument ⁸ | Type of support ^{g, h} | Sector ^d | Additional information ^e |
| region projecti programme | European euro - EUR | USD | | source | instrument | support | | |
| Total contributions through bilateral, | 1,796.59 | NE | | | | | | |
| regional and other channels | | | | | | | | |
| Montenegro / Republic of | 1,796.59 | NE | Provided | ODA | Other () | Cross- | Cross- | |
| Montenegro/ Support to Montenegrin | | | | | | cutting | cutting | |
| institutions in strengthening | | | | | | | | |
| administrative capacity in the EU | | | | | | | | |
| accession process in the field of | | | | | | | | |
| climate change | | | | | | | | |
| | | | | | | | | |

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

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

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

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

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

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

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

^{*g*} Please specify.

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

Custom Footnotes

Table 7(b)

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

| | Total a | Total amount | | | | | | |
|--|------------------------|-----------------------|---------------------|---------------------|--------------------------------------|------------------------------------|---------------------|-------------------------------------|
| Recipient country/ | Climate- | specific ^f | Status ^c | Funding | Financial instrument ^g | Type of support ^{g, h} | Sector ^d | Additional information ^e |
| region/project/programme ^b | European euro - EUR | USD | | source ^s | instrument* | support | | |
| Total contributions through bilateral, regional and other channels | | | | | | | | |
| | | | | | | | | |

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

^{*a*} Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

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

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

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

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

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

^{*g*} Please specify.

^{*h*} Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

Custom Footnotes

Table 8

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

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

^{*a*} To be reported to the extent possible.

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

^c Parties may report sectoral disaggregation, as appropriate.

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

Custom Footnotes

Republic of Croatia did not provide technology development and transfer support

Table 9 .a

| Provision o | f capacity-building | support |
|-------------|---------------------|---------|
|-------------|---------------------|---------|

| Recipient country/region | Targeted area | Programme or project title | Description of programme or project ^{b,c} |
|--------------------------|---------------|----------------------------|--|
| | | | |
| | | | |

^{*a*} To be reported to the extent possible.

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

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

Custom Footnotes

Republic of Croatia did not provide any capacity-building support