

| National Totals for NOx                                 |  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
|---|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|----------------------------------|--------------------------------|-----------------------------|---|--------------------------------|-------------------------------|---|
| Reported until 23.11.2015                               |  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Country / NOx [Gg]                                      | NO <sub>x</sub> P base year  | 1978     | 1980     | 1987     | 1990     | 1994     | 1995     | 2000     | 2005     | 2010     | 2011     | 2012     | 2013     | NO <sub>x</sub> P emission reduction target by 1994 (emission level base year) | Compliance with the Nox Protocol | Exceedance by (or reduction %) | GP ceiling by 2010 ratified | Compliance with the Gothenburg Protocol | Exceedance by (or reduction %) | Parties with ceilings/targets |   |
| Albania   | 1987   |          |          |          | 24.0     | 17.0     | 16.0     | 17.9     | 24.7     |          |          |          |          | no base year reported  |                                  |                                |                             |   |                                | x                             |   |
| Armenia   |  |          |          | 51.5     | 46.2     | 11.9     | 14.9     | 10.0     |          |          |          |          |          |  |                                  |                                |                             |   |                                | x                             |   |
| Austria   | 1987   | 230.9    | 208.6    | 215.5    | 194.7    | 194.1    | 210.2    | 235.0    | 179.6    | 169.9    | 164.6    | 162.3    | 209      | Yes  | -22%                             |                                |                             |   |                                | x                             |   |
| Austria (compliance)                                    |  |          |          | 215.5    | 194.7    | 194.1    | 210.2    | 235.0    | 179.6    | 169.9    | 164.6    | 162.3    |          |  |                                  |                                |                             |   |                                |                               |   |
| Azerbaijan  |  |          |          | 0.2      | 0.1      | 13.7     | 12.5     | 28.1     | 77.8     | 84.8     | 91.2     | 97.3     |          |  |                                  |                                |                             |   |                                |                               |   |
| Belarus   | 1987   | 234.0    | 263.0    | 285.0    | 203.0    | 195.0    | 134.8    | 170.9    | 170.1    | 170.8    | 174.5    | 162.5    | 263      | Yes  | -38%                             |                                |                             |   |                                | x                             |   |
| Belgium   | 1987   | 442.0    | 413.0    | 348.4    | 384.2    | 346.6    | 319.8    | 252.3    | 235.0    | 216.1    | 207.7    | 207.7    | 338      | Yes  | -39%                             | 181                            | No (AP)                     | 15%                                     |                                | x                             |   |
| Belgium (compliance)**                                  |  |          |          | NR       |          | NR       | NR       | NR       | NR       | 169.9    | 155.6    | 146.5    | 139.9    |  |                                  |                                |                             |   |                                |                               |   |
| Bosnia & Herzegovina                                    |  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Bulgaria  | 1987   |          |          | 416.0    | 264.1    | 156.3    | 165.4    | 144.5    | 179.1    | 138.5    | 153.9    | 139.6    | 416      | Yes  | -71%                             | 266                            | Yes                         | -54%                                    |                                | x                             |   |
| Canada (national)                                       | 1987   | 1,959.0  | 2,781.9  | 2,809.3  | 2,785.0  | 2,834.9  | 2,835.7  | 2,483.4  | 2,140.3  | 2,154.8  | 2,032.8  | 1,992.5  | 2,782    | Yes  | -28%                             |                                |                             |   |                                | x                             |   |
| Croatia   | 1987   | 60.0     |          | 105.3    | 73.0     | 73.7     | 83.6     | 81.9     | 64.4     | 60.3     | 55.5     | 55.7     |          |  |                                  |                                |                             |   |                                | x                             |   |
| Cyprus  | 1987   | 13.0     | 16.0     | 17.1     | 20.8     | 19.6     | 22.3     | 21.4     | 18.5     | 21.2     | 21.3     | 16.2     | 16       | No   | 1%                               | 23                             | Yes                         | -30%                                    |                                | x                             |   |
| Czech Republic  | 1987   | 937.0    | 816.0    | 544.0    | 375.0    | 368.0    | 297.6    | 279.3    | 220.2    | 206.9    | 193.5    | 181.3    | 816      | Yes  | -78%                             | 286                            | Yes                         | -37%                                    |                                | x                             |   |
| Denmark   | 1987   |          |          | 330.2    | 299.3    | 307.5    | 289.6    | 224.3    | 201.6    | 145.3    | 137.9    | 123.9    | 330      | Yes  | -62%                             | 127                            | Yes                         | -2%                                     |                                | x                             |   |
| Estonia   | 1987   |          |          | 70.0     | 73.6     | 41.5     | 38.6     | 37.5     | 36.4     | 36.4     | 35.6     | 32.1     | 70       | Yes  | -58%                             |                                |                             |   |                                | x                             |   |
| Finland   | 1987   | 295.0    | 285.0    | 285.4    | 279.4    | 254.3    | 201.4    | 169.4    | 165.5    | 153.6    | 146.5    | 144.9    | 288      | Yes  | -50%                             | 170                            | Yes                         | -15%                                    |                                | x                             |   |
| France  | 1987   | 2,006.8  | 1,830.8  | 1,911.2  | 1,790.8  | 1,745.3  | 1,610.0  | 1,430.1  | 1,096.4  | 1,036.0  | 1,007.6  | 989.5    | 1831     | Yes  | -46%                             | 860                            | No (AP)                     | 15%                                     |                                | x                             |   |
| Georgia   |  |          |          | 121.0    | 134.1    | 129.5    | 20.8     | 26.6     | 11.1     | 25.5     | 32.9     | 36.4     | 39.1     | 40.9   |                                  |                                |                             |   |                                |                               |   |
| Germany   | 1987   | 3,334.0  | 3,350.0  | 2,882.3  | 2,199.6  | 2,167.1  | 1,925.4  | 1,573.2  | 1,333.7  | 1,310.8  | 1,270.2  | 1,269.2  | 3,350    | Yes  | -68%                             | 1081                           | Yes                         | -1%                                     |                                | x                             |   |
| Germany (compliance)                                    |  |          |          | 2,882.3  | 2,199.6  | 2,167.1  | 1,925.4  | 1,573.2  | 1,333.7  | 1,310.8  | 1,270.2  | 1,269.2  |          |  |                                  |                                |                             |   |                                |                               |   |
| Greece  | 1987   |          |          | 340.9    | 325.9    | 348.3    | 328.8    | 359.2    | 416.5    | 319.4    | 296.0    | 258.6    | 341      |  |                                  |                                |                             |   |                                | x                             |   |
| Hungary   | 1987   | 272.9    | 264.9    | 283.4    | 211.0    | 213.5    | 208.4    | 169.3    | 154.0    | 140.0    | 124.1    | 120.6    | 265      | Yes  | -54%                             | 198                            | Yes                         | -39%                                    |                                | x                             |   |
| Iceland   |  |          |          | 21.2     | 24.0     | 27.7     | 30.4     | 29.7     | 27.6     | 25.9     | 22.7     | 21.2     | 20.9     | 20.8   |                                  |                                |                             |   |                                |                               |   |
| Ireland   | 1987   | 73.0     | 120.5    | 133.9    | 133.5    | 130.0    | 137.4    | 135.9    | 85.0     | 76.4     | 78.5     | 79.1     | 120      | Yes  | -34%                             |                                |                             |   |                                | x                             |   |
| Ireland (compliance)                                    |  |          |          | 125.3    | 140.0    | 134.3    | 130.1    | 123.6    | 128.7    | 67.3     | 59.8     | 62.7     | 63.3     |  |                                  |                                |                             |   |                                |                               |   |
| Italy   | 1987   | 1,664.7  | 1,916.5  | 2,047.3  | 1,949.0  | 1,920.0  | 1,455.8  | 1,244.3  | 968.8    | 949.8    | 863.3    | 820.6    | 1,917    | Yes  | -57%                             |                                |                             |   |                                | x                             |   |
| Kazakhstan  |  |          |          | 355.7    | 296.6    | 282.7    | 200.9    |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Kyrgyzstan  |  |          |          | 115.2    | 3.3      | 61.3     | 59.1     | 62.8     | 27.1     | 30.9     | 3.8      |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Latvia  |  |          |          | 94.2     | 56.8     | 52.3     | 44.1     | 44.4     | 38.4     | 33.4     | 34.2     | 34.0     |          |  |                                  |                                |                             |   |                                | x                             |   |
| Liechtenstein   | 1987   | 0.2      | 0.9      | 0.8      | 0.7      | 0.7      | 0.7      | 0.7      | 0.6      | 0.7      | 0.7      | 0.7      | 0.9      | Yes  | -20%                             |                                | 84                          | Yes                                     | -59%                           |                               | x |
| Lithuania   | 1987   | 152.0    | 171.0    | 128.4    | 58.9     | 61.8     | 50.7     | 54.3     | 49.6     | 46.1     | 47.7     | 46.2     | 171      | Yes  | -73%                             | 110                            | Yes                         | -58%                                    |                                | x                             |   |
| Lithuania (compliance)                                  |  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Luxembourg  |  |          | 23.0     | 21.5     | 41.5     | 42.0     | 36.6     | 41.5     | 58.8     | 39.5     | 38.9     | 34.6     | 31.4     |  |                                  |                                |                             |   |                                |                               |   |
| Luxembourg (compliance)                                 | 1987   |          |          | 22.2     | 20.6     | 17.8     | 15.0     | 18.1     | 17.0     | 17.0     | 15.8     | 13.7     | 21.5     | Yes  | -36%                             | 11                             | No (AP)                     | 24%                                     |                                | x                             |   |
| Malta   |  |          |          |          |          |          |          | 8.7      | 9.3      | 8.1      | 7.9      | 8.7      | 4.9      |  |                                  |                                |                             |   |                                |                               |   |
| Moldova, Republic of                                    |  |          | 58.0     | 71.0     | 88.6     | 26.3     | 22.1     | 12.5     | 16.7     | 21.6     | 21.0     | 20.9     | 39.2     |  |                                  |                                |                             |   |                                |                               |   |
| Monaco  |  |          |          | 0.5      | 0.5      | 0.5      | 0.4      | 0.3      | 0.3      | 0.3      | 0.3      | 0.3      |          |  |                                  |                                |                             |   |                                |                               |   |
| Montenegro  |  |          |          | 7.6      | 4.0      | 3.0      | 8.9      | 7.5      | 9.8      | 12.6     |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Netherlands*  | 1987   | 583.0    | 599.0    | 573.7    | 488.9    | 474.7    | 395.4    | 340.9    | 274.2    | 258.0    | 247.5    | 239.6    | 599      | Yes  | -60%                             | 266                            | Yes                         | -10%                                    |                                | x                             |   |
| Netherlands (compliance)                                |  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Norway  | 1987   | 159.3    | 192.5    | 190.8    | 192.8    | 195.2    | 202.0    | 196.1    | 177.2    | 170.0    | 163.1    | 154.4    | 192      | Yes  | -20%                             | 156                            | Yes                         | -1%                                     |                                | x                             |   |
| Poland  | 1987   | 1,229.0  | 1,530.0  | 1,280.0  | 1,105.0  | 1,063.1  | 844.1    | 850.9    | 860.6    | 842.6    | 819.2    | 798.2    | 1,530    | Yes  | -48%                             |                                |                             |   |                                | x                             |   |
| Portugal  |  |          | 166.0    | 116.0    | 233.5    | 253.8    | 264.5    | 261.8    | 254.7    | 177.1    | 169.2    | 162.3    | 161.5    |  |                                  |                                | 260                         | Yes                                     | -38%                           |                               | x |
| Romania   |  |          | 523.0    | 580.0    | 546.0    | 349.0    | 420.0    | 296.0    | 317.2    | 231.9    | 239.5    | 235.0    | 218.8    |  |                                  |                                | 437                         | Yes                                     | -50%                           |                               | x |
| Russia (European part)                                  | 1987   | 1,734.0  | 3,411.0  | 3,600.0  | 2,667.0  | 2,570.0  | 2,357.0  | 2,795.0  | 2,369.0  | 2,225.8  | 2,093.0  | 2,108.4  | 3,411    | Yes  | -38%                             |                                |                             |   |                                | x                             |   |
| Serbia  |  |          |          | 146.8    | 125.7    | 142.4    | 143.7    | 168.9    | 171.9    | 184.5    | 187.9    | 137.4    |          |  |                                  |                                |                             |   |                                |                               |   |
| Slovakia  | 1987   | 197.0    | 222.0    | 170.0    | 170.0    | 170.0    | 107.4    | 101.9    | 80.6     | 85.2     | 81.0     | 79.6     | 197      | Yes  | -60%                             | 130                            | Yes                         | -39%                                    |                                | x                             |   |
| Slovenia  | 1987   | 55.0     | 62.8     | 62.7     | 61.1     | 60.3     | 52.5     | 49.5     | 47.1     | 46.9     | 45.9     | 42.9     | 63       | Yes  | -32%                             | 45                             | Yes                         | -8%                                     |                                | x                             |   |
| Spain (entire territory = NOxP)                         | 1987   | 1,112.0  | 1,091.0  | 1,340.9  | 1,423.8  | 1,412.4  | 1,397.8  | 1,421.2  | 959.7    | 953.3    | 919.6    | 812.2    | 1,091    | Yes  | -26%                             |                                |                             |   |                                | x                             |   |
| Spain (EMEP territory = GP)                             |  |          |          | 1,269.7  | 1,324.4  | 1,315.8  | 1,299.6  | 1,322.5  | 890.9    | 884.9    | 853.6    | 742.7    |          |  |                                  |                                |                             |   |                                |                               |   |
| Sweden  | 1987   | 404.0    | 437.0    | 269.2    | 253.4    | 245.5    | 207.2    | 175.6    | 149.6    | 139.4    | 131.5    | 125.9    | 437      | Yes  | -71%                             | 148                            | Yes                         | -15%                                    |                                | x                             |   |
| Switzerland   | 1987   | 164.7    | 163.0    | 144.0    | 122.5    | 119.0    | 107.8    | 93.2     | 77.6     | 73.0     | 73.0     | 72.3     | 163      | Yes  | -56%                             | 79                             | Yes                         | -8%                                     |                                | x                             |   |
| Switzerland (compliance)                                |  |          |          | 168.0    | 159.8    | 138.7    | 121.8    | 120.5    | 108.2    | 90.6     | 73.3     | 68.4     | 65.7     |  |                                  |                                |                             |   |                                |                               |   |
| The FYR of Macedonia                                    | 1987   | NR       | 39.3     | 39.0     | 27.3     | 29.5     | 32.0     | 34.4     | 29.0     | 40.4     | 35.1     | 27.6     | 39       | Yes  | -30%                             | 39                             | Yes                         | -29%                                    |                                | x                             |   |
| Turkey  |  |          | 363.9    | 569.6    | 564.0    | 650.0    | 703.0    | 840.0    | 879.0    | 945.0    | 1,120.0  | 1,090.0  | 1,047.0  |  |                                  |                                |                             |   |                                |                               |   |
| Ukraine   | 1987   | 1,145.0  | 1,094.0  | 1,097.0  | 568.0    | 531.0    | 561.1    | 513.4    | 603.2    | 603.2    | 603.2    | 673.0    | 1,094    | Yes  | -38%                             |                                |                             |   |                                | x                             |   |
| United Kingdom*   | 1987   | 2,660.8  | 2,791.3  | 2,880.4  | 2,432.2  | 2,316.1  | 1,797.7  | 1,586.5  | 1,123.0  | 1,051.3  | 1,072.9  | 1,019.7  | 2,791    | Yes  | -63%                             | 1181                           | Yes                         | -14%                                    |                                | x                             |   |
| United Kingdom (compliance)                             |  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| United States (national)                                | 1978   | 23,951.0 | 22,121.0 | 23,442.6 | 23,161.0 | 22,997.0 | 22,639.0 | 21,547.0 | 18,380.7 | 13,381.0 | 13,004.0 | 12,222.0 | 11,691.0 | 23,951   | Yes                              | -51%                           |                             |   |                                |                               | x |
| United States (PAMA)                                    |  |          |          | 9,154.3  |          |          |          |          |          | 4,068.4  | 4,116.0  |          |          |  |                                  |                                |                             |   |                                |                               |   |
| EU28  | 1987   |          | 13,659.5 | 17,579.1 | 15,182.6 | 14,853.5 | 12,830.6 | 11,693.1 | 9,205.9  | 8,868.7  | 8,513.6  | 8,166.0  | 13,660   | Yes  | -40%                             |                                |                             |   |                                |                               |   |
| EU15 (GP)   |  |          |          | 13,838.4 | 12,429.7 | 12,147.4 | 10,551.2 | 9,541.5  | 7,250.6  | 6,951.8  | 6,687.0  | 6,442.6  |          |  |                                  |                                | 6,671                       | Yes                                     | -3%                            |                               | x |
| EU28  | The data presented for EU28 has been reported by the EU.   |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| EU15  | includes Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, UK   |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| US PAMA-GP  | Connecticut, Delaware, the District of Columbia, Illinois, Indiana, Kentucky, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, West Virginia, and Wisconsin (indicative ceiling). |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Spain EMEP territory                                    | Excluding Canary Islands and cities Ceuta and Melilla in Africa  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| Fuel used emissions for compliance checking allowed for | Austria, Belgium, Ireland, Lithuania, Luxembourg, Netherlands, Switzerland, UK   |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| AP  | Parties, which have chosen another base year than 1987 at the time of accession (Adjustment Procedure)   |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| *   | Reported emissions based on "fuel used" as national total  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |
| **  | Not approved adjustments included  |          |          |          |          |          |          |          |          |          |          |          |          |  |                                  |                                |                             |   |                                |                               |   |