

| Table 7. Electric Power Industry Emissions Estimates, 1990 Through 2009 (Thousand Metric Tons)   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|
| Colorado   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Emission Type  | 1990                | 1991                | 1992                | 1993                | 1994                | 1995                | 1996                | 1997                | 1998                | 1999                | 2000                | 2001                | 2002                | 2003                | 2004                | 2005                | 2006                | 2007                | 2008                | 2009   |
| <b>Sulfur Dioxide</b>  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Coal   | 93                  | 89                  | 92                  | 90                  | 98                  | 88                  | 86                  | 92                  | 91                  | 84                  | 82                  | 85                  | 83                  | 70                  | 59                  | 58                  | 59                  | 59                  | 55                  | 43     |
| Petroleum  | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *      |
| Natural Gas  | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *      |
| Other Renewables <sup>1</sup>  | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -      |
| Other <sup>2</sup>   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *      |
| Total  | 93                  | 89                  | 93                  | 91                  | 98                  | 88                  | 86                  | 92                  | 91                  | 85                  | 82                  | 85                  | 83                  | 70                  | 59                  | 58                  | 59                  | 59                  | 55                  | 43     |
| <b>Nitrogen Oxide</b>  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Coal   | 144                 | 132                 | 129                 | 132                 | 136                 | 80                  | 81                  | 77                  | 72                  | 64                  | 65                  | 65                  | 66                  | 66                  | 61                  | 63                  | 60                  | 60                  | 57                  | 48     |
| Petroleum  | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | 1                   | 1                   | 2                   | 1                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *      |
| Natural Gas  | 2                   | 2                   | 2                   | 2                   | 3                   | 6                   | 5                   | 5                   | 5                   | 5                   | 6                   | 6                   | 6                   | 6                   | 4                   | 4                   | 5                   | 7                   | 5                   | 6      |
| Other Gases  | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -      |
| Other Renewables <sup>1</sup>  | -                   | -                   | -                   | -                   | -                   | 1                   | 1                   | 1                   | 1                   | 2                   | *                   | 1                   | *                   | 1                   | *                   | *                   | *                   | *                   | *                   | *      |
| Other <sup>2</sup>   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *                   | *      |
| Total  | 146                 | 135                 | 131                 | 134                 | 139                 | 87                  | 87                  | 83                  | 79                  | 72                  | 74                  | 73                  | 72                  | 72                  | 67                  | 67                  | 66                  | 67                  | 63                  | 54     |
| <b>Carbon Dioxide</b>  |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Coal   | 30,614 <sup>3</sup> | 29,908 <sup>3</sup> | 30,838 <sup>3</sup> | 31,486 <sup>3</sup> | 32,424 <sup>3</sup> | 31,282 <sup>3</sup> | 32,685 <sup>3</sup> | 33,006 <sup>3</sup> | 33,966 <sup>3</sup> | 33,560 <sup>3</sup> | 36,031 <sup>3</sup> | 37,007 <sup>3</sup> | 36,910 <sup>3</sup> | 36,550 <sup>3</sup> | 36,234 <sup>3</sup> | 36,001 <sup>3</sup> | 36,975 <sup>3</sup> | 36,647 <sup>3</sup> | 35,716 <sup>3</sup> | 32,622 |
| Petroleum  | 24 <sup>3</sup>     | 38                  | 40 <sup>3</sup>     | 12                  | 14                  | 18                  | 27 <sup>3</sup>     | 18                  | 69                  | 73                  | 159                 | 218                 | 24 <sup>3</sup>     | 30 <sup>3</sup>     | 15 <sup>3</sup>     | 20 <sup>3</sup>     | 34 <sup>3</sup>     | 29 <sup>3</sup>     | 22                  | 14     |
| Natural Gas  | 878 <sup>3</sup>    | 860 <sup>3</sup>    | 916 <sup>3</sup>    | 999 <sup>3</sup>    | 1,399 <sup>3</sup>  | 1,595 <sup>3</sup>  | 1,864 <sup>3</sup>  | 1,788               | 2,152               | 2,671               | 3,897               | 5,140               | 4,689               | 4,596               | 4,931               | 5,375               | 5,416               | 6,895               | 5,922               | 6,353  |
| Other Gases  | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | 2 <sup>3</sup>      | 2 <sup>3</sup>      | 1 <sup>3</sup>      | 1 <sup>3</sup>      | 1 <sup>3</sup>      | 1 <sup>3</sup>      | 1 <sup>3</sup>      | -      |
| Other <sup>2</sup>   | 1 <sup>3</sup>      | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -      |
| Total  | 31,517 <sup>3</sup> | 30,807 <sup>3</sup> | 31,794 <sup>3</sup> | 32,497 <sup>3</sup> | 33,837 <sup>3</sup> | 32,895 <sup>3</sup> | 34,575 <sup>3</sup> | 34,812 <sup>3</sup> | 36,187 <sup>3</sup> | 36,305 <sup>3</sup> | 40,086 <sup>3</sup> | 42,365 <sup>3</sup> | 41,625 <sup>3</sup> | 41,178 <sup>3</sup> | 41,180 <sup>3</sup> | 41,397 <sup>3</sup> | 42,426 <sup>3</sup> | 43,571 <sup>3</sup> | 41,659 <sup>3</sup> | 38,989 |
| Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.             |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| R = Revised.   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| * = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *).                       |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| - (dash) = Data not available.   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.   |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |
| Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration. |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |        |