

Table 8.1 Nuclear Energy Overview

| | Total Operable Units ^{a,b} | Net Summer Capacity of Operable Units ^{b,c} | Nuclear Electricity Net Generation | Nuclear Share of Electricity Net Generation | Capacity Factor ^d |
|---------------------------------|-------------------------------------|--|------------------------------------|---|------------------------------|
| | Number | Million Kilowatts | Million Kilowatthours | Percent | |
| 1973 Total | 42 | 22.683 | 83,479 | 4.5 | 53.5 |
| 1975 Total | 57 | 37.267 | 172,505 | 9.0 | 55.9 |
| 1980 Total | 71 | 51.810 | 251,116 | 11.0 | 56.3 |
| 1985 Total | 96 | 79.397 | 383,691 | 15.5 | 58.0 |
| 1990 Total | 112 | 99.624 | 576,862 | 19.0 | 66.0 |
| 1995 Total | 109 | 99.515 | 673,402 | 20.1 | 77.4 |
| 1996 Total | 109 | 100.784 | 674,729 | 19.6 | 76.2 |
| 1997 Total | 107 | 99.716 | 628,644 | 18.0 | 71.1 |
| 1998 Total | 104 | 97.070 | 673,702 | 18.6 | 78.2 |
| 1999 Total | 104 | 97.411 | 728,254 | 19.7 | 85.3 |
| 2000 Total | 104 | 97.860 | 753,893 | 19.8 | 88.1 |
| 2001 Total | 104 | 98.159 | 768,826 | 20.6 | 89.4 |
| 2002 Total | 104 | 98.657 | 780,064 | 20.2 | 90.3 |
| 2003 Total | 104 | 99.209 | 763,733 | 19.7 | 87.9 |
| 2004 Total | 104 | 99.628 | 788,528 | 19.9 | 90.1 |
| 2005 Total | 104 | 99.988 | 781,986 | 19.3 | 89.3 |
| 2006 January | 104 | 100.334 | 71,912 | 21.9 | 96.3 |
| February | 104 | 100.334 | 62,616 | 20.4 | 92.9 |
| March | 104 | 100.334 | 63,721 | 20.0 | 85.4 |
| April | 104 | 100.334 | 57,567 | 19.3 | 79.7 |
| May | 104 | 100.334 | 62,776 | 19.0 | 84.1 |
| June | 104 | 100.334 | 68,391 | 18.8 | 94.7 |
| July | 104 | 100.334 | 72,186 | 17.6 | 96.7 |
| August | 104 | 100.334 | 72,016 | 17.7 | 96.5 |
| September | 104 | 100.334 | 66,642 | 20.1 | 92.3 |
| October | 104 | 100.334 | 57,509 | 17.9 | 77.0 |
| November | 104 | 100.334 | 61,392 | 19.9 | 85.0 |
| December | 104 | 100.334 | 70,490 | 21.0 | 94.4 |
| Total | 104 | 100.334 | 787,219 | 19.4 | 89.6 |
| 2007 January | 104 | 100.635 | 74,006 | 21.0 | 98.8 |
| February | 104 | 100.635 | 65,225 | 20.1 | 96.4 |
| March | 104 | 100.635 | 64,305 | 20.0 | 85.9 |
| April | 104 | 100.635 | 57,301 | 18.8 | 79.1 |
| May | 104 | 100.635 | 65,025 | 19.7 | 86.8 |
| June | 104 | 100.635 | 68,923 | 19.0 | 95.1 |
| July | 104 | 100.635 | 72,729 | 18.5 | 97.1 |
| August | 104 | 100.635 | 72,751 | 17.2 | 97.2 |
| September | 104 | 100.635 | 67,582 | 19.0 | 93.3 |
| October | 104 | 100.635 | 61,690 | 18.5 | 82.4 |
| November | 104 | 100.635 | 64,969 | 20.7 | 89.7 |
| December | 104 | 100.635 | 71,983 | 20.8 | 96.1 |
| Total | 104 | 100.635 | 806,487 | 19.4 | 91.5 |
| 2008 January | 104 | 100.635 | 70,686 | 19.5 | 94.4 |
| February | 104 | 100.635 | 64,936 | 19.9 | 92.7 |
| March | 104 | 100.635 | 64,683 | 19.9 | 86.4 |
| April | 104 | 100.635 | 57,281 | 18.9 | 79.1 |
| May | 104 | 100.635 | 64,794 | 19.9 | 86.5 |
| June | 104 | 100.635 | ^R 70,268 | ^R 18.8 | ^R 97.0 |
| July | 104 | ^E 100.635 | ^F 73,727 | ^F 18.1 | ^E 98.5 |
| 7-Month Total | 104 | ^E 100.635 | ^E 466,376 | ^E 19.2 | ^E 90.7 |
| 2007 7-Month Total | 104 | 100.635 | 467,514 | 19.6 | 91.3 |
| 2006 7-Month Total | 104 | 100.334 | 459,169 | 19.5 | 89.9 |

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at the end of the period—see Note 1 at end of section. Although Browns Ferry 1 was shut down in 1985, the unit remained fully licensed and continued to be counted as operable during the shutdown; in May 2007, the unit was restarted—see Note 1(a) at end of section. For additional information on nuclear generating units, see *Annual Energy Review 2007*, June 2008, Table 9.1, <http://www.eia.doe.gov/emeu/aer/nuclear.html>.

^b At end of period.

^c For the definition of "Net Summer Capacity," see Note 2(a) at end of section.

^d For an explanation of the method of calculating the capacity factor, see Note 2

at end of section.

R=Revised. E=Estimate. F=Forecast.

Notes: • See Note 1 at end of section for discussion of reactor unit coverage. • Nuclear electricity net generation totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See <http://www.eia.doe.gov/emeu/mer/nuclear.html> for all available data beginning in 1973.

Sources: See end of section.

Electricity statistics are undergoing an upgrade to incorporate data from the new survey Form EIA-923, "Power Plant Operations Report." Until the conversion is completed, forecast values derived from EIA's Short-Term Integrated Forecasting System are shown for net generation statistics.