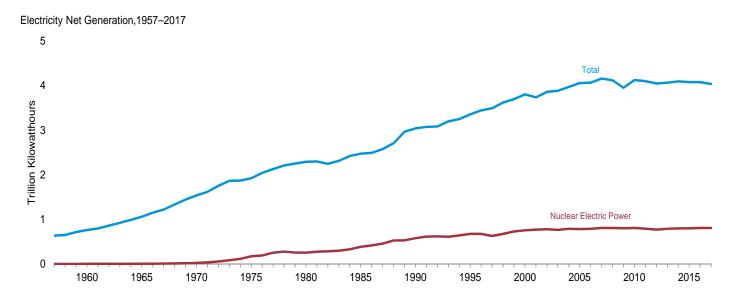
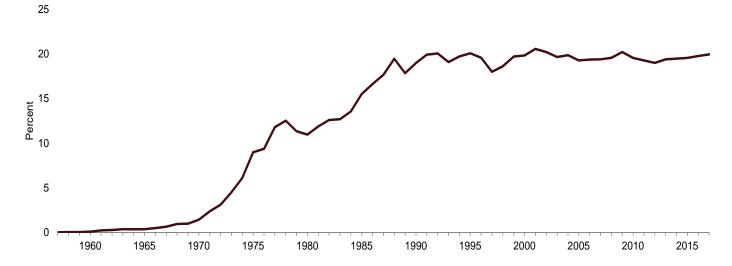
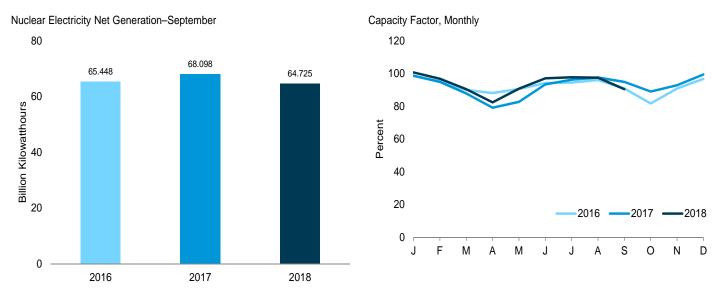
8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview



Nuclear Share of Electricity Net Generation, 1957-2017





 $Web\ Page:\ http://www.eia.gov/totalenergy/data/monthly/\#nuclear.$

Sources: Tables 7.2a and 8.1.

Table 8.1 Nuclear Energy Overview

Number Million Kilowatts Million Kilowatthours Percent		Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c} Million Kilowatts	Nuclear Electricity Net Generation Million Kilowatthours	Nuclear Share of Electricity Net Generation	Capacity Factor
10 Total		Number			1	
10 Total	957 Total	1	0.055	10	(s)	NΔ
15 Total						
10 Total						
15 Total						
10 Total						
15 Total 96 79.397 383,691 15.5 58.0	75 Total					
10 Total	80 Total					
10 Total	35 Total				15.5	
15 Total	90 Total	112	99.624	576,862	19.0	66.0
10 Total	95 Total	109	99.515		20.1	77.4
17 Total	00 Total	104			19.8	
12 Total	01 Total					
13 Total						
14 Total						
15 Total	03 Total					
16 Total	04 Total	104	99.628	788,528	19.9	90.1
16 Total	05 Total	104	99.988	781,986	19.3	89.3
17 Total		104	100.334	787.219	19.4	89.6
18 Total						91.8
19 Total						d 0.1.1
10 Total						91.1
1 Total						
12 Total						
12 Total	11 Total					
3 Total 100 99.240 789,016 19.4 89.9 98.569 797,176 19.6 92.3 17.5 Total 99 98.572 797,178 19.6 92.3 17.5 Total 99 98.572 797,178 19.6 92.3 17.5 Total 99 98.572 797,178 19.6 92.3 17.5 Total 99 98.521 75.525 20.6 98.5 17.5 18.3 17.5 18.3 17.5 18.3 18.5 18.3 18.5 19.5 18.5 18.5 19	2 Total					
	13 Total	100	99.240	789.016	19.4	89.9
16 Total 99 98.672 797,178 19.6 92.3 16 January 99 98.921 72.525 20.6 98.5 February 99 98.921 65.638 20.9 95.3 March 99 98.921 66.149 21.7 89.9 April 99 98.921 66.732 21.4 88.1 May 99 98.921 66.576 21.0 90.5 June 99 100.043 67.175 18.3 94.2 July 100 100.043 70.548 17.5 98.1 July 100 100.043 70.548 17.5 96.1 September 100 100.043 67.175 18.3 94.2 July 100 100.043 70.548 17.5 96.1 September 100 100.043 67.179 21.9 December 99 99.565 60.773 19.4 81.7 December 99 99.565 71.662 20.8 96.7 December 99 99.565 71.662 20.8 96.7 Total 99 89.610 73.121 21.3 98.7 February 99 89.610 63.560 21.9 94.9 March 99 89.610 63.560 21.9 94.9 March 99 89.610 65.093 20.5 87.8 April 99 89.610 61.313 19.0 82.7 June 99 89.629 72.384 18.8 97.6 August 99 89.629 72.384 18.8 97.6 August 99 89.629 65.995 20.6 89.0 October 99 89.629 65.995 20.6 89.0 October 99 89.629 72.384 18.8 97.6 August 99 89.629 65.995 20.6 89.0 October 99 89.629 67.334 19.9 87.6 April 99 89.629 65.995 20.6 89.0 October 99 89.629 67.334 18.8 97.6 September 99 89.629 65.995 20.6 89.0 October 99 89.629 67.330 20.9 99.4 October 99 89.629 67.330 20.9 99.4 October 99 89.629 67.330 20.9 99.4 October 99 89.629 67.320 19.8 80.6 October 99 89.629 67.320 19.8 80.6 October 99 89.629 67.320 19.8 80.0 Oc	I4 Total	99				
February 99 98.921 72.525 20.6 98.5	5 Total					
February 99 98.921 65.638 20.9 95.3 March 99 98.921 66.149 21.7 89.9 April 99 98.921 66.732 21.4 88.1 May 99 98.921 66.576 21.0 90.5 June 99 10.043 67.175 18.3 94.2 July 100 100.043 70.349 17.1 94.5 August 100 100.043 71.526 17.5 96.1 September 100 100.043 65.448 18.6 90.9 October 99 99.565 60.733 19.4 81.7 November 99 99.565 65.179 21.9 90.9 December 99 99.565 71.662 20.8 96.7 Total 99 99.565 805.694 19.8 92.3 17 January 99 8 99.610 73.121 21.3 98.7 February 99 8 99.610 63.560 21.9 94.9 March 99 8 99.610 63.560 21.9 94.9 March 99 8 99.610 65.093 20.5 87.8 April 99 8 99.610 65.093 20.5 87.8 April 99 8 8 96.10 61.313 19.0 82.7 July 99 8 8 96.10 65.093 20.5 87.8 April 99 8 8 96.10 67.311 18.7 93.4 July 99 8 8 96.10 67.011 18.7 93.4 July 99 8 99.629 71.314 17.6 96.2 August 99 8 99.629 66.098 20.3 94.9 Protection 99 8 99.629 66.098 20.3 94.9 Protection 99 8 99.629 67.000 20.9 94.9 Protection 99 8 99.629 67.000 20.9 94.9 Protection 99 8 99.629 67.000 20.9 94.9 Protection 99 8 99.610 67.011 18.7 93.4 July 99 8 99.629 71.314 17.6 96.2 August 99 8 99.629 71.314 17.6 96.2 August 99 8 99.629 66.098 20.3 94.9 Protection 99 8 99.629 67.000 20.9 99.4 Protection 99 8 99.629 67.000 20.9 99.8 Protection	10 Total	33	30.072	737,170	13.0	32.3
March 99 98.921 66.149 21.7 89.9 April 99 98.921 66.576 21.0 90.5 June 99 100.043 67.175 18.3 94.2 July 100 100.043 70.349 17.1 94.5 August 100 100.043 71.526 17.5 96.1 September 100 100.043 65.448 18.6 90.9 October 99 99.565 60.733 19.4 81.7 November 99 99.565 71.662 20.8 96.7 Total 99 99.565 71.662 20.8 96.7 Total 99 99.565 805,694 19.8 92.3 7 January 99 89.610 63.560 21.9 94.9 April 99 89.610 65.093 20.5 87.8 April 99 89.610 66.743 19.3 79.1 M	6 January	99	98.921	72,525	20.6	98.5
March 99 98.921 66.149 21.7 89.9 April 99 98.921 66.576 21.0 90.5 June 99 100.043 67.175 18.3 94.2 July 100 100.043 70.349 17.1 94.5 August 100 100.043 71.526 17.5 96.1 September 100 100.043 65.448 18.6 90.9 October 99 99.565 60.733 19.4 81.7 November 99 99.565 71.662 20.8 96.7 Total 99 99.565 71.662 20.8 96.7 Total 99 99.565 805,694 19.8 92.3 7 January 99 89.610 63.560 21.9 94.9 April 99 89.610 65.093 20.5 87.8 April 99 89.610 66.743 19.3 79.1 M	February	99	98.921	65.638	20.9	95.3
April 99 98.921 62.732 21.4 88.1 May 99 98.921 66.576 21.0 99.5 June 99 100.043 67.175 18.3 94.2 July 100 100.043 70.349 17.1 94.5 August 100 100.043 71.526 17.5 96.1 September 100 100.043 71.526 17.5 96.1 September 100 100.043 65.448 18.6 99.9 October 99 99.565 60.733 19.4 81.7 November 99 99.565 65.179 21.9 90.9 December 99 99.565 71.662 20.8 96.7 Total 99 89.610 63.560 21.9 94.9 March 99 89.610 65.093 20.5 87.8 April 99 89.610 61.313 19.0 82.7 June 99 89.629 71.314 17.6 96.2 August 99 89.629 72.384 18.8 97.6 89.0 Cotober 99 89.629 65.995 20.6 89.0 November 99 89.629 63.098 20.3 94.9 October 99 89.629 65.995 20.6 89.0 November 99 89.629 66.618 21.5 92.9 December 99 89.629 67.033 20.9 99.4 Total 99 89.629 67.033 20.9 99.4 Total 99 89.629 67.033 20.9 99.4 Total 99 89.629 67.033 20.9 99.4 March 99 89.629 67.030 19.8 89.03 19.6 82.4 May 99 89.629 67.030 19.8 89.03 19.6 82.4 May 99 89.629 67.030 19.8 89.03 19.0 99.04 March 99 89.629 67.030 19.8 89.03 19.9 89.03 19.0 99.04 March 99 89.629 67.030 19.8 89.03 19.0 99.04 March 99 89.629 67.030 19.8 89.03 19.0 99.04 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0		99	98 921	66 149	21 7	89.9
May 99 98.921 66.576 21.0 90.5 June 99 100.043 67.175 18.3 94.2 July 100 100.043 70,349 17.1 94.5 August 100 100.043 65.448 18.6 90.9 September 100 100.043 65.448 18.6 90.9 October 99 99.565 60.733 19.4 81.7 November 99 99.565 65.179 21.9 90.9 December 99 99.565 71.662 20.8 96.7 Total 99 99.565 805,694 19.8 92.3 17 January 99 89.610 73,121 21.3 98.7 February 99 89.610 65.093 20.5 87.8 April 99 89.610 66.093 20.5 87.8 April 99 89.610 61.313 19.0 82.7						
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November 99 99.565 65,179 21.9 90.9 December 99 99.565 71,662 20.8 96.7 Total 99 99.565 805,694 19.8 92.3 17 January 99 R.90,610 73,121 21.3 98.7 February 99 R.90,610 65,093 20.5 87.8 March 99 R.90,610 65,093 20.5 87.8 April 99 R.90,610 61,313 19.0 82.7 June 99 R.90,610 61,313 19.0 82.7 June 99 R.90,610 67,011 18.7 93.4 July 99 R.90,629 71,314 17.6 96.2 August 99 R.90,629 72,384 18.8 97.6 September 99 R.90,629 65,995 20.6 89.0 November 99 R.90,629 65,995 20.6 89.0	October	99				81.7
December 99 99.565 805,694 19.8 92.3 Total 99 99.565 805,694 19.8 92.3 17 January 99 R. 99.610 73.121 21.3 98.7 February 99 R. 99.610 63.560 21.9 94.9 March 99 R. 99.610 56.743 19.3 79.1 May 99 R. 99.610 67.743 19.3 79.1 May 99 R. 99.610 67.743 19.0 82.7 June 99 R. 99.610 67.701 18.7 93.4 July 99 R. 99.629 71.314 17.6 96.2 August 99 R. 99.629 72.384 18.8 97.6 August 99 R. 99.629 68.098 20.3 94.9 October 99 R. 99.629 65.995 20.6 89.0 November 99 R. 99.629 73.700 20.9 99.4 <	November					
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February 99 R 99.610 63.560 21.9 94.9 March 99 R 99.610 65.093 20.5 87.8 April 99 R 99.610 56,743 19.3 79.1 May 99 R 99.610 61,313 19.0 82.7 June 99 R 99.610 67.011 18.7 93.4 July 99 R 99.629 71,314 17.6 96.2 August 99 R 99.629 72,384 18.8 97.6 September 99 R 99.629 68,098 20.3 94.9 October 99 R 99.629 65,995 20.6 89.0 November 99 R 99.629 66,618 21.5 92.9 December 99 R 99.629 73,700 20.9 99.4 Total 99 R 99.629 74,649 19.9 \$100.7 February 99 \$9.629 64,790 21.2 \$96.8	7 January	99	R 99.610	73,121	21.3	98.7
March 99 R 99.610 65.093 20.5 87.8 April 99 R 99.610 56,743 19.3 79.1 May 99 R 99.610 61,313 19.0 82.7 June 99 R 99.620 71,314 17.6 96.2 August 99 R 99.629 72,384 18.8 97.6 September 99 R 99.629 68,098 20.3 94.9 October 99 R 99.629 65,995 20.6 89.0 November 99 R 99.629 66,618 21.5 92.9 December 99 R 99.629 73,700 20.9 99.4 Total 99 R 99.629 74,649 19.9 F 100.7 February 99 E 99.629 74,649 19.9 F 90.4 April 99 E 99.629 67,033 20.9 E 90.4 April 99 E 99.629 67,320 19.8 E 90.4		99	^R 99.610			
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9-Month Total	September		E 99 176			E 90 4
17 9-Month Total						E 93.8
		•	55.1.0	•	. 3.2	
	7 9-Month Total			598,637		

a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at end of period. See Note 1, "Operable Nuclear Reactors," at end of section.

b At end of period.
c For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section. Beginning in 2011, monthly capacity values are estimated in two steps: 1) uprates and derates reported on Form EIA-860M are added to specific months; and 2) the difference between the resulting year-end capacity (from data reported on Form EIA-860M) and final capacity (reported on Form EIA-860) is allocated to the month of January.
d Beginning in 2008, capacity factor data are calculated using a new

methodology. For an explanation of the method of calculating the capacity factor, see Note 2, "Nuclear Capacity," at end of section.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.05%.

Notes: • For a discussion of nuclear reactor unit coverage, see Note 1, "Operable Nuclear Reactors," at end of section. • 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.gov/totalenergy/data/monthly/#nuclear (Excel and CSV files) for all available annual data beginning in 1957 and monthly data beginning in 1973.

Sources: See end of section.

Nuclear Energy

Note 1. Operable Nuclear Reactors. A reactor is defined as operable when it possesses a full-power license from the Nuclear Regulatory Commission or its predecessor, the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition includes units retaining full-power licenses during long, nonroutine shutdowns that for a time rendered them unable to generate electricity.

Note 2. Nuclear Capacity. Nuclear generating units may have more than one type of net capacity rating, including the following:

- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5% of gross generation.
- (b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

Through 2007, the monthly capacity factors are calculated as the monthly nuclear electricity net generation divided by the maximum possible nuclear electricity net generation for that month. The maximum possible nuclear electricity net generation is the number of hours in the month (assuming 24-hour days, with no adjustment for changes to or from Daylight Savings Time) multiplied by the net summer capacity of operable nuclear generating units at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are calculated as the annual nuclear electricity net generation divided by the annual maximum possible nuclear electricity net generation (the sum of the monthly values for maximum possible nuclear electricity net generation). For the methodology used to calculate capacity factors beginning in 2008, see U.S. Energy Information Administration, *Electric Power Monthly*, Appendix C notes on "Average Capacity Factors."

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units

1957–1982: Compiled from various sources, primarily U.S. Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones."

1983 forward: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," and predecessor forms; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and monthly updates as appropriate. See https://www.eia.gov/nuclear/generation/index.html for a list of operable units.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation 1957 forward: Table 7.2a.

Capacity Factor

1973–2007: Calculated by EIA using the method described above in Note 2.

2008 forward: EIA, Form EIA-860, "Annual Electric Generator Report"; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and Form EIA-923, "Power Plant Operations Report."