

Energy and Utilities

This section presents statistics on fuel resources, energy production and consumption, electric energy, hydroelectric power, nuclear power, solar energy, wood energy, and the electric and gas utility industries. The principal sources are the U.S. Department of Energy's Energy Information Administration (EIA), the Edison Electric Institute, Washington, DC, and the American Gas Association, Arlington, VA. The Department of Energy was created in October 1977 and assumed and centralized the responsibilities of all or part of several agencies including the Federal Power Commission (FPC), the U.S. Bureau of Mines, the Federal Energy Administration, and the U.S. Energy Research and Development Administration. For additional data on transportation, see Section 23; on fuels, see Section 18; and on energy-related housing characteristics, see Section 20.

The EIA, in its *Annual Energy Review*, provides statistics and trend data on energy supply, demand, and prices. Information is included on petroleum and natural gas, coal, electricity, hydroelectric power, nuclear power, solar, wood, and geothermal energy. Among its annual reports are *Annual Energy Review*, *Electric Power Annual*, *Natural Gas Annual*, *Petroleum Supply Annual*, *State Energy Data Report*, *State Energy Price and Expenditure Report*, *Financial Statistics of Selected Electric Utilities*, *Performance Profiles of Major Energy Producers*, *Annual Energy Outlook*, and *International Energy Annual*. These various publications contain state, national, and international data on production of electricity, net summer capability of generating plants, fuels used in energy production, energy sales and consumption, and hydroelectric power. The EIA also issues the *Monthly Energy Review*, which presents current supply, disposition, and price data and monthly publications on petroleum, coal, natural

gas, and electric power. Data on residential energy consumption, expenditures, and conservation activities are available from EIA's Residential Energy Consumption Survey and are published every 4 years.

The Edison Electric Institute's monthly bulletin and annual *Statistical Year Book of the Electric Utility Industry for the Year* contain data on the distribution of electric energy by public utilities; information on the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment is presented in the annual *Year-End Summary of the Electric Power Situation in the United States*. The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on gas utilities and financial and operating statistics.

Btu conversion factors—Various energy sources are converted from original units to the thermal equivalent using British thermal units (Btu). A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit (F) at or near 39.2 degrees F. Factors are calculated annually from the latest final annual data available; some are revised as a result. The following list provides conversion factors used in 2001 for production and consumption, in that order, for various fuels: Petroleum, 5.800 and 5.326 mil. Btu per barrel; total coal, 21.072 and 20.753 mil. Btu per short ton; and natural gas (dry), 1,025 Btu per cubic foot for both. The factors for the production of nuclear power and geothermal power were 10,623 and 21,017 Btu per kilowatt-hour, respectively. The fossil fuel steam-electric power plant generation factor of 10,346 Btu per kilowatt-hour was used for hydroelectric power generation and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

No. 875. Utilities—Establishments, Revenue, Payroll, and Employees by Kind of Business (NAICS Basis): 1997

Kind of business	NAICS code ¹	Revenue			Annual payroll		Paid employee for pay period including March 12 (number)
		Establishments (number)	Total (mil. dol.)	Per paid employee (dol.)	Total (mil. dol.)	Per paid employee (dol.)	
Utilities	22	15,513	411,713	585,899	36,595	52,077	702,703
Electric power generation, transmission, & distribution	2211	7,935	269,095	476,676	30,440	53,921	564,525
Electric power generation	22111	1,745	73,375	493,492	8,369	56,289	148,686
Fossil fuel electric power generation	221112	1,009	48,324	515,374	5,049	53,843	93,765
Nuclear electric power generation	221113	67	13,967	406,231	2,202	64,045	34,381
Other electric power generation	221119	316	8,011	608,723	725	55,069	13,160
Electric power transmission, control & distribution	22112	6,190	195,720	470,663	22,070	53,074	415,839
Electric bulk power transmission & control	221121	120	956	395,361	116	47,852	2,418
Electric power distribution	221122	6,070	194,764	471,103	21,955	53,105	413,421
Other combination utilities	2211223	30	428	630,811	52	76,771	678
Natural gas distribution	2212	2,747	136,995	1,331,629	5,110	49,666	102,878
Natural gas transmission & distribution	2212101	713	18,267	629,034	1,534	52,838	29,039
Natural gas distribution	2212102	1,682	87,105	1,387,135	2,955	47,059	62,795
Mixed, manu., or LP gas pro &/or dist.	2212103	86	(D)	(NA)	(D)	(NA)	(²)
Electric & other serv. combined (natural gas distribution)	2212104	145	28,110	4,193,063	413	61,565	6,704
Gas & other serv. combined (natural gas distribution)	2212105	119	2,853	915,151	149	47,705	3,117
Water, sewage, & other systems	2213	4,831	5,623	159,284	1,045	29,614	35,300
Water supply & irrigation systems	22131	4,052	4,454	159,447	825	29,550	27,933
Sewage treatment facilities	22132	696	596	106,399	139	24,816	5,600
Steam & air-conditioning supply	22133	83	573	324,314	81	45,838	1,767

D Withheld to avoid disclosing data of individual companies; data are included in higher level totals. NA Not available.
¹ North American Industry Classification System, 1997; see text, Section 15, Business Enterprise. ² 1,000 to 2,499 employees.
 Source: U.S. Census Bureau, 1997 Economic Census, Utilities, Series EC97T22A-US, issued December 1999.

No. 876. Private Utilities—Employees, Annual Payroll, and Establishments by Industry: 2000

[Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data. An establishment is a single physical location where business is conducted or where services or industrial operations are performed]

Year and industry	NAICS code ¹	Number of employees ²	Annual payroll (mil. dol.)	Average payroll per employee (dol.)	Establishment by employment size-class				
					Total	Under 20 employees	20 to 99 employees	100 to 499 employees	500 and over employees
Utilities, total	22	655,230	40,651	62,041	17,301	12,174	3,775	1,155	197
Electric power generation, transmission and distribution	2211	520,854	33,759	64,815	9,150	5,155	2,897	924	174
Electric power generation	22111	143,927	10,045	69,790	2,118	1,230	544	289	55
Hydroelectric power generation	221111	9,736	582	59,751	463	373	68	20	2
Fossil fuel electric power generation	221112	86,936	5,848	67,270	1,213	584	382	231	16
Nuclear electric power generation	221113	32,876	2,653	80,690	68	14	7	17	30
Other electric power generation	221119	14,379	962	66,895	374	259	87	21	7
Electric pwr transmsn, control & distribution	22112	376,927	23,714	62,915	7,032	3,925	2,353	635	119
Electric bulk power transmission & control	221121	5,420	344	63,436	145	98	37	9	1
Electric power distribution	221122	371,507	23,370	62,907	6,887	3,827	2,316	626	118
Natural gas distribution	2212	94,821	5,530	58,318	2,846	2,027	605	194	20
Water, sewage & other systems	2213	39,555	1,362	34,436	5,305	4,992	273	37	3
Water supply & irrigation systems	22131	32,786	1,120	34,171	4,523	4,293	194	33	3
Sewage treatment facilities	22132	5,141	160	31,105	708	657	48	3	-
Steam & air-conditioning supply	22133	1,628	82	50,308	74	42	31	1	-

- Represents zero. ¹ North American Industry Classification System, 1997. ² Covers full- and part-time employees who are on the payroll in the pay period including March 12.
 Source: U.S. Census Bureau, County Business Patterns, annual. See also <<http://www.census.gov/epcd/cbp/view/cbpview.html>> (accessed August 2002).

No. 877. Energy Supply and Disposition by Type of Fuel: 1960 to 2000

[In quadrillion British thermal units (Btu). For Btu conversion factors, see source]

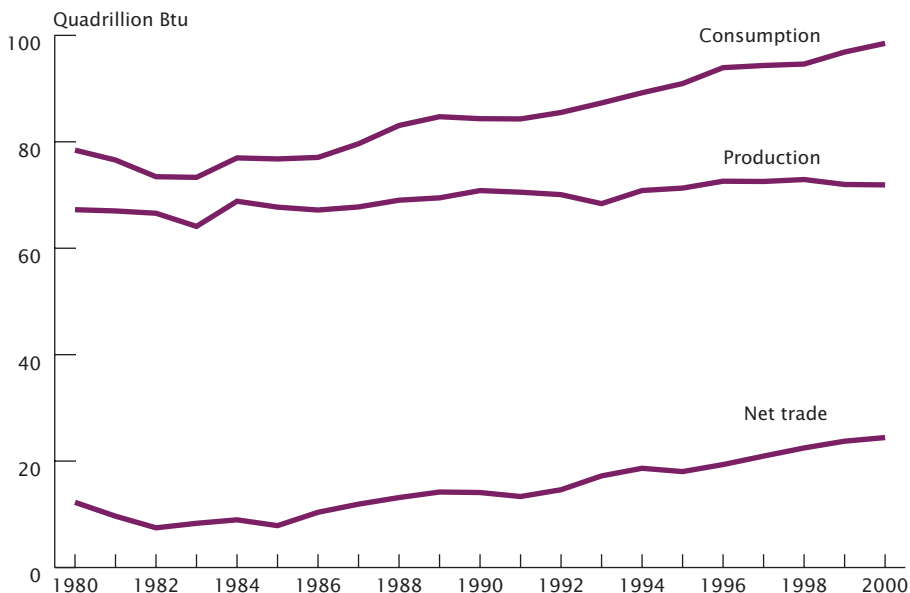
Year	Production										Consumption					
	Total ¹	Crude oil ²	Natural gas	Coal	Nuclear power ³	Renewable energy				Net trade total ⁵	Total ¹	Petroleum ⁶	Natural gas ⁷	Coal	Nuclear power	Renewable energy, total
						Total ¹	Hydro-electric power	Biofuels ⁴	Solar energy							
1960	42.80	14.94	12.66	10.82	0.01	2.93	1.61	1.32	(NA)	-2.74	45.12	19.92	12.39	9.84	0.01	2.98
1970	63.50	20.40	21.67	14.61	0.24	4.08	2.63	1.43	(NA)	-5.72	67.86	29.52	21.80	12.27	0.24	4.10
1971	62.72	20.03	22.28	13.19	0.41	4.27	2.82	1.43	(NA)	-7.41	69.31	30.56	22.47	11.60	0.41	4.31
1972	63.92	20.04	22.21	14.09	0.58	4.40	2.86	1.50	(NA)	-9.32	72.76	32.95	22.70	12.08	0.58	4.48
1973	63.59	19.49	22.19	13.99	0.91	4.43	2.86	1.53	(NA)	-12.68	75.81	34.84	22.51	12.97	0.91	4.58
1974	62.37	18.58	21.21	14.07	1.27	4.77	3.18	1.54	(NA)	-12.19	74.08	33.46	21.73	12.66	1.27	4.90
1975	61.36	17.73	19.64	14.99	1.90	4.72	3.16	1.50	(NA)	-11.75	72.04	32.73	19.95	12.66	1.90	4.79
1976	61.60	17.26	19.48	15.65	2.11	4.77	2.98	1.71	(NA)	-14.65	76.07	35.18	20.35	13.58	2.11	4.86
1977	62.05	17.45	19.57	15.76	2.70	4.25	2.33	1.84	(NA)	-18.02	78.12	37.12	19.93	13.92	2.70	4.43
1978	63.14	18.43	19.49	14.91	3.02	5.04	2.94	2.04	(NA)	-17.32	80.12	37.97	20.00	13.97	3.02	5.24
1979	65.95	18.10	20.08	17.54	2.78	5.17	2.93	2.15	(NA)	-16.75	81.04	37.12	20.67	15.04	2.78	5.38
1980	67.24	18.25	19.91	18.60	2.74	5.49	2.90	2.49	(NA)	-12.25	78.44	34.20	20.39	15.42	2.74	5.71
1981	67.01	18.15	19.70	18.38	3.01	5.47	2.76	2.59	(NA)	-9.65	76.57	31.93	19.93	15.91	3.01	5.82
1982	66.57	18.31	18.32	18.64	3.13	5.99	3.27	2.62	(NA)	-7.46	73.44	30.23	18.51	15.32	3.13	6.29
1983	64.11	18.39	16.59	17.25	3.20	6.49	3.53	2.83	(NA)	-8.31	73.32	30.05	17.36	15.89	3.20	6.86
1984	68.83	18.85	18.01	19.72	3.55	6.43	3.39	2.88	(Z)	-8.96	76.97	31.05	18.51	17.07	3.55	6.85
1985	67.72	18.99	16.98	19.33	4.15	6.03	2.97	2.86	(Z)	-7.87	76.78	30.92	17.83	17.48	4.15	6.46
1986	67.18	18.38	16.54	19.51	4.47	6.13	3.07	2.84	(Z)	-10.38	77.07	32.20	16.71	17.26	4.47	6.51
1987	67.76	17.68	17.14	20.14	4.91	5.69	2.64	2.82	(Z)	-11.91	79.63	32.87	17.74	18.01	4.91	6.17
1988	69.03	17.28	17.60	20.74	5.66	5.49	2.33	2.94	(Z)	-13.15	83.07	34.22	18.55	18.85	5.66	6.17
1989	69.47	16.12	17.85	21.35	5.68	6.32	2.86	3.06	0.06	-14.19	84.72	34.21	19.38	19.04	5.68	6.49
1990	70.84	15.57	18.36	22.46	6.16	6.15	3.05	2.66	0.06	-14.09	84.34	33.55	19.30	19.25	6.16	6.25
1991	70.53	15.70	18.23	21.59	6.58	6.17	3.02	2.70	0.07	-13.34	84.30	32.85	19.61	19.00	6.58	6.32
1992	70.07	15.22	18.38	21.63	6.61	5.92	2.62	2.85	0.07	-14.62	85.51	33.53	20.13	19.15	6.61	6.13
1993	68.38	14.49	18.58	20.25	6.52	6.17	2.89	2.80	0.07	-17.22	87.50	33.84	20.83	19.76	6.52	6.41
1994	70.85	14.10	19.35	22.11	6.84	6.09	2.68	2.94	0.07	-18.65	89.21	34.67	21.29	19.93	6.84	6.43
1995	71.30	13.89	19.10	22.03	7.18	6.69	3.21	3.07	0.07	-18.03	90.94	34.55	22.16	20.03	7.18	6.99
1996	72.60	13.72	19.36	22.68	7.17	7.16	3.59	3.13	0.08	-19.35	93.93	35.76	22.56	20.96	7.17	7.47
1997	72.55	13.66	19.39	23.21	6.68	7.15	3.72	3.08	0.07	-20.94	94.34	36.27	22.53	21.46	6.68	7.40
1998	72.91	13.24	19.46	23.94	7.16	6.75	3.35	2.98	0.07	-22.47	94.61	36.93	21.92	21.67	7.16	6.98
1999	71.98	12.45	19.13	23.19	7.74	7.02	3.31	3.22	0.07	-23.74	96.87	37.96	22.29	21.69	7.74	7.23
2000	71.90	12.38	19.74	22.66	8.01	6.56	2.84	3.28	0.07	-24.42	98.50	37.96	23.33	22.41	8.01	6.82

NA Not available. Z Less than 50 trillion. ¹ Includes types of fuel not shown separately. ² Includes lease condensate. ³ Data on the generation of electricity in the United States represent net generation, which is gross output of electricity (measured at the generator terminals) minus power plant use. Nuclear electricity generation data are gross outputs of electricity. ⁴ Alcohol is ethanol blended into motor gasoline. ⁵ Exports minus imports. ⁶ Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. ⁷ Includes supplemental gaseous fuels.

Source: U.S. Energy Information Administration, *Annual Energy Review* and Internet site <<http://tonto.eia.doe.gov/FTP/ROOT/multifuel/038400.pdf>> (released August 2001).

Figure 19.1

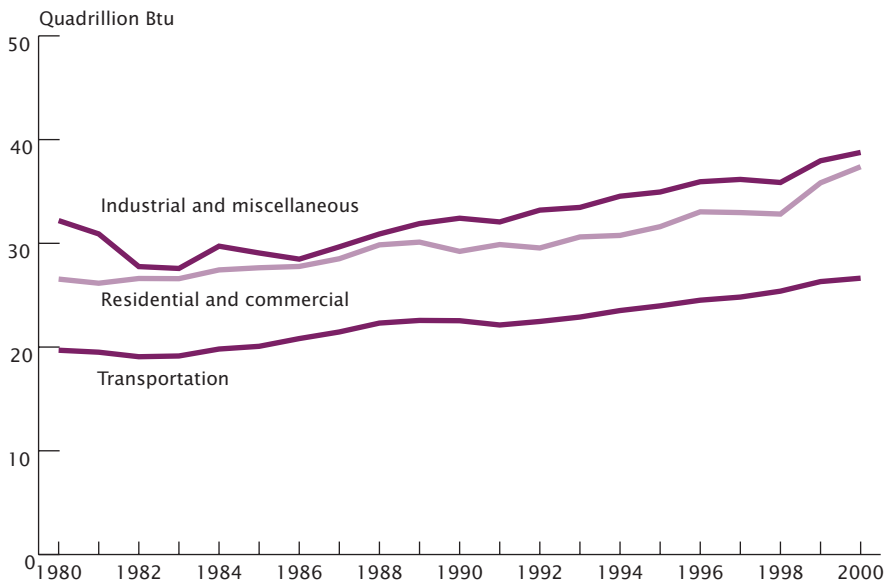
Energy Production, Trade, and Consumption: 1980 to 2000



Source: Chart prepared by U.S. Census Bureau. For data, see Table 877.

Figure 19.2

Energy Consumption by End-Use Sector: 1980 to 2000



Source: Chart prepared by U.S. Census Bureau. For data, see Table 879.

No. 878. Energy Supply and Disposition by Type of Fuel—Estimates, 1999 and 2000, and Projections, 2005 to 2020

[Quadrillion Btu (73.50 represents 73,500,000,000,000) per year. Btu=British thermal unit. Totals may not equal sum of components due to rounding. Projections are "reference" or midlevel forecasts. See report for methodology and assumptions used in generating projections]

Type of fuel	Projections					
	1999	2000	2005	2010	2015	2020
Production, total	73.50	72.80	76.79	81.09	86.51	90.66
Crude oil and lease condensate	12.43	12.33	11.38	10.76	11.76	11.92
Natural gas plant liquids	2.62	2.71	3.02	3.37	3.74	4.03
Natural gas, dry	19.20	19.59	21.29	24.12	27.03	29.25
Coal	23.15	22.58	24.95	26.23	26.91	28.11
Nuclear power	7.74	8.03	8.10	7.87	7.55	7.49
Renewable energy ¹	6.69	6.46	7.37	7.89	8.47	8.93
Other ²	1.66	1.10	0.68	0.85	1.04	0.93
Imports, total	27.37	29.04	34.39	38.79	41.46	44.44
Crude oil ³	18.96	19.69	22.63	24.36	24.04	24.45
Petroleum products ⁴	4.19	4.73	5.68	7.83	10.31	12.69
Natural gas	3.66	3.85	5.01	5.64	6.04	6.20
Other imports ⁵	0.56	0.76	1.07	0.95	1.07	1.09
Exports, total	3.64	3.93	3.52	3.90	4.01	4.05
Petroleum ⁶	1.96	2.15	1.70	1.91	2.02	2.11
Natural gas	0.16	0.25	0.41	0.63	0.66	0.56
Coal	1.52	1.53	1.41	1.36	1.34	1.38
Consumption, total	97.10	99.29	107.61	115.61	123.64	130.85
Petroleum products	38.25	38.63	41.40	45.20	48.85	51.99
Natural gas	22.57	23.43	26.16	28.85	32.14	34.63
Coal	21.56	22.34	24.03	25.41	26.16	27.35
Nuclear power	7.74	8.03	8.10	7.87	7.55	7.49
Renewable energy ¹ other ⁸	6.98	6.86	7.92	8.28	8.94	9.38
Net imports of petroleum	21.19	22.28	26.61	30.29	32.33	35.04
Prices (1999 dollars per unit):						
World oil price (dol per bbl) ⁹	17.60	27.72	22.73	23.36	24.00	24.68
Gas wellhead price (dol. per mcf) ¹⁰	2.27	3.60	2.66	2.85	3.07	3.26
Coal minemouth price (dol per ton)	17.01	16.45	14.99	14.11	13.44	12.79
Average electric price (cents per kWh)	6.7	6.9	6.4	6.3	6.3	6.5

¹ Includes grid-connected electricity from conventional hydroelectric; wood and wood waste; landfill gas; municipal solid waste; other biomass; wind; photovoltaic and solar thermal sources; nonelectric energy from renewable sources, such as active and passive solar systems, and wood; and both the ethanol and gasoline components of E85, but not the ethanol components of blends less than 85 percent. Excludes electricity imports using renewable sources and nonmarketed renewable energy. See Table A18 for selected nonmarketed residential and commercial renewable energy. ² Includes liquid hydrogen, methanol, supplemental natural gas, and some domestic inputs to refineries. ³ Includes imports of crude oil for the Strategic Petroleum Reserve. ⁴ Includes imports of finished petroleum products, imports of unfinished oils, alcohols, ethers, and blending components. ⁵ Includes coal, coal coke (net), and electricity (net). ⁶ Includes crude oil and petroleum products. ⁷ Includes natural gas plant liquids, crude oil consumed as a fuel, and nonpetroleum based liquids for blending, such as ethanol. ⁸ Includes net electricity imports, methanol, and liquid hydrogen. ⁹ Average refiner acquisition cost for imported crude oil. ¹⁰ Represents lower 48 onshore and offshore supplies.

Source: U.S. Energy Information Administration, *Annual Energy Outlook, 2002*, Series DOE/EIA-0383(2002). See also <[http://www.eia.doe.gov/oiia/aef/pdf/0383\(2002\).pdf](http://www.eia.doe.gov/oiia/aef/pdf/0383(2002).pdf)> released December 2001).

No. 879. Energy Consumption by End-Use Sector: 1970 to 2000

[There exists a discontinuity in the series between 1989 and 1990 due to the expanded coverage of nonelectric utility use of renewable energy beginning 1990. Btu=British thermal units. For Btu conversion factors, see source]

Year	Total consumption ¹ (quad. Btu)	Percent of total					
		Residential and commercial (quad. Btu)	Industrial ¹ (quad. Btu)	Transportation (quad. Btu)	Residential and commercial	Industrial ¹	Transportation
1970	67.86	22.13	29.63	16.10	32.6	43.7	23.7
1975	72.04	24.35	29.45	18.25	33.8	40.9	25.3
1980	78.44	26.55	32.19	19.70	33.9	41.0	25.1
1985	76.78	27.64	29.07	20.07	36.0	37.9	26.1
1990	84.34	29.22	32.42	22.54	34.6	38.4	26.7
1992	85.51	29.55	33.20	22.47	34.6	38.8	26.3
1993	87.30	30.62	33.46	22.89	35.1	38.3	26.2
1994	89.21	30.76	34.54	23.52	34.5	38.7	26.4
1995	90.94	31.61	34.95	23.97	34.8	38.4	26.4
1996	93.93	33.04	35.94	24.52	35.2	38.3	26.1
1997	94.34	32.96	36.16	24.82	34.9	38.3	26.3
1998 ²	94.61	32.82	35.86	25.39	34.7	37.9	26.8
1999 ²	96.87	35.83	37.96	26.31	37.0	39.2	27.2
2000	98.50	37.39	38.76	26.64	38.0	39.4	27.0

¹ Includes some fossil-fuel consumption at nonutilities. ² There is a discontinuity in this time series between 1998 and 1999; beginning in 1999, nonutility consumption of fossil fuels is included in electric power sector consumption and the calculation for electrical system energy losses.

Source: U.S. Energy Information Administration, *Annual Energy Review 2000*, Series DOE/EIA-0384(2000). See also <<http://www.eia.doe.gov/emeu/aer/pdf/038400.pdf>> (released August 2001).

No. 880. Energy Consumption—End-Use Sector and Selected Source by State: 1999

[In trillions of Btu (95,682 represents 95,682,000,000,000), except as indicated]

State	Total ¹	Per capita ² (mil. Btu)	End-use sector				Source				
			Residential	Commercial	Industrial	Transportation	Petroleum	Natural gas (dry)	Coal	Hydro electric power	Nuclear electric power
United States . . .	95,682	351	18,382	15,059	35,917	26,325	37,960	22,295	20,498	3,449	7,736
Alabama	2,005	459	341	226	977	461	551	345	855	80	328
Alaska	695	1,122	48	63	386	198	253	420	11	9	-
Arizona	1,220	255	279	267	222	453	497	163	404	104	323
Arkansas	1,204	472	193	124	589	297	384	286	267	28	137
California	8,375	253	1,416	1,237	2,824	2,899	3,383	2,182	64	425	355
Colorado	1,156	285	261	255	273	366	426	318	355	17	-
Connecticut	839	256	245	197	162	235	440	135	-	14	135
Delaware	279	370	56	45	107	71	141	58	36	-	-
District of Columbia	170	327	34	106	4	27	34	33	-	-	-
Florida	3,853	255	1,018	810	680	1,346	1,912	542	672	2	335
Georgia	2,798	359	553	416	957	871	1,044	341	790	28	334
Hawaii	241	204	23	25	71	122	214	3	3	1	-
Idaho	518	414	96	87	210	126	170	72	8	140	-
Illinois	3,883	320	897	722	1,273	991	1,340	1,058	837	2	868
Indiana	2,736	460	484	301	1,306	645	899	577	1,451	4	-
Iowa	1,122	391	223	159	463	278	419	236	416	10	39
Kansas	1,050	396	201	169	392	288	437	302	329	-	97
Kentucky	1,830	462	316	219	851	444	726	220	885	27	-
Louisiana	3,615	827	325	237	2,249	805	1,452	1,558	228	8	139
Maine	529	422	98	58	260	113	250	6	3	81	-
Maryland	1,378	267	359	337	277	405	584	201	304	15	141
Massachusetts	1,569	254	412	325	391	441	639	356	13	15	48
Michigan	3,240	328	744	568	1,083	845	1,098	930	823	11	155
Minnesota	1,675	351	340	218	618	500	661	346	336	59	142
Mississippi	1,209	437	203	146	451	409	483	346	138	-	90
Missouri	1,768	323	432	334	380	623	781	270	686	18	91
Montana	412	467	62	48	196	107	174	64	174	143	-
Nebraska	602	361	120	111	186	194	246	121	196	18	107
Nevada	615	340	122	97	198	198	221	157	180	29	-
New Hampshire	335	279	82	56	97	101	188	21	35	25	92
New Jersey	2,589	318	540	541	645	863	1,236	641	68	4-1	308
New Mexico	635	365	93	106	202	234	257	225	298	3	-
New York	4,283	235	1,092	1,216	995	980	1,653	1,251	188	265	393
North Carolina	2,447	320	563	440	754	691	937	229	708	40	399
North Dakota	366	577	54	43	186	82	123	59	412	28	-
Ohio	4,323	384	867	632	1,855	969	1,340	878	1,379	4	175
Oklahoma	1,378	410	259	198	518	403	500	543	334	32	-
Oregon	1,109	335	238	191	352	328	392	219	39	475	-
Pennsylvania	3,716	310	859	583	1,290	984	1,385	696	1,143	16	756
Rhode Island	261	264	66	52	77	66	99	86	(Z)	10	-
South Carolina	1,493	384	288	210	618	376	467	163	403	7	540
South Dakota	239	326	53	39	62	84	115	36	46	71	-
Tennessee	2,071	378	442	328	711	590	713	286	626	74	289
Texas	11,501	574	1,323	1,147	6,482	2,549	5,565	3,982	1,535	13	391
Utah	694	326	128	120	235	211	262	169	382	13	-
Vermont	165	278	43	29	40	53	85	8	2	61	43
Virginia	2,227	324	494	463	614	656	864	275	402	-6	301
Washington	2,241	389	436	332	856	617	878	277	96	988	65
West Virginia	735	407	142	101	311	182	220	147	977	10	-
Wisconsin	1,811	345	376	285	717	432	668	379	472	23	122
Wyoming	422	879	36	42	224	120	156	102	495	12	-

- Represents zero. Z Less than 0.05 trillion Btu. ¹ Sources of energy includes geothermal, wood and waste, and net interstate sales of electricity, including losses, not shown separately. ² Based on estimated resident population as of July 1. ³ Includes 57.7 trillion Btu of net imports of coal coke not allocated. ⁴ Minus sign (-) indicates when amount of energy expended exceeds amount of energy consumed.

Source: U.S. Energy Information Administration, *State Energy Data Report*, 1999, annual. See also <<http://eia.doe.gov/pub/state.data/pdf/sedr.pdf>> (released May 2001).

No. 881. Renewable Energy Consumption Estimates by Type: 1990 to 1999

[In quadrillion Btu. Renewable energy is obtained from sources that are essentially inexhaustible unlike fossil fuels of which there is a finite supply]

Source and sector	1990	1994	1995	1996	1997	1998	1999
Consumption, total	6.26	6.39	6.96	7.45	7.37	6.99	7.21
Conventional hydroelectric power ¹	3.14	2.97	3.48	3.89	3.96	3.57	3.51
Geothermal energy ²	0.36	0.40	0.33	0.35	0.32	0.33	0.37
Biomass ³	2.67	2.91	3.04	3.10	2.98	2.99	3.21
Solar energy ⁴	0.06	0.07	0.07	0.08	0.07	0.07	0.07
Wind energy	0.03	0.04	0.03	0.04	0.03	0.03	0.05
Residential and commercial	0.68	0.66	0.72	0.72	0.56	0.50	0.53
Biomass	0.62	0.58	0.64	0.64	0.48	0.42	0.46
Geothermal energy ⁶	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Solar ⁷	0.06	0.06	0.07	0.07	0.07	0.07	0.06
Industrial ⁸	2.24	2.61	2.68	2.79	2.80	2.84	3.20
Biomass ³	1.94	2.21	2.28	2.37	2.39	2.44	2.62
Geothermal energy ⁶	0.16	0.21	0.20	0.21	0.19	0.20	0.32
Conventional hydroelectric power ⁹	0.10	0.14	0.15	0.17	0.18	0.15	0.20
Solar energy	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Wind energy	0.03	0.04	0.03	0.04	0.03	0.03	0.05
Transportation:							
Biomass ¹⁰	0.08	0.10	0.10	0.07	0.10	0.11	0.11
Electric utilities ¹¹	3.25	3.02	3.47	3.87	3.91	3.55	3.37
Biomass ³	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Geothermal energy ⁶	0.19	0.17	0.10	0.11	0.12	0.11	0.04
Conventional hydroelectric power ⁹	3.04	2.83	3.06	3.42	3.54	3.20	3.10
Solar and wind energy	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)

Z Less than 0.005 quadrillion Btu. ¹ Hydroelectricity generated by pumped storage is not included in renewable energy. ² Includes grid-connected electricity, geothermal heat pump and direct use energy. ³ Wood, wood waste, wood liquors, peat, railroad ties, wood sludge, spent sulfite liquors, agricultural waste, straw, tires, fish oils, tall oil, sludge waste, waste alcohol, municipal solid waste, landfill gases, and other waste. ⁴ Includes solar thermal and photovoltaic. ⁵ Wood. ⁶ Includes geothermal heat pump and direct use energy. The Industrial and Electric Utility sectors also include ⁷ The solar thermal component of 0.06 quadrillion Btu for residential and commercial use is calculated by presuming an overall efficiency of 50 percent for all three categories of solar thermal collectors, a 1,500-Btu per square foot average daily insolation, and the potential thermal energy production from the 219 million square feet of thermal collectors produced between 1980 and 1999. ⁸ Includes generation of electricity by cogenerators, independent power producers, and small power producers. ⁹ Hydroelectricity generated by pumped storage is not included in renewable energy. ¹⁰ Ethanol blended into gasoline. ¹¹ For Btu conversion rates, see source.

Source: U.S. Energy Information Administration, *Renewable Energy Annual 2000*, Series DOE/EIA-0603(2000). See also <<http://www.eia.doe.gov/cneaf/solar.renewables/page/readata/rea.pdf>> (issued March 2001).

No. 882. Energy Expenditures and Average Fuel Prices by Source and Sector: 1970 to 1999

[82,862 represents \$82,862,000,000. For definition of Btu, see text, this section. End-use sector and electric utilities exclude expenditures and prices on energy sources such as hydropower, solar, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

Source and sector	1970	1975	1980	1985	1990	1994	1995	1996	1997	1998	1999
EXPENDITURES (mil. dol.)											
Total ^{1 2 3}	82,862	171,828	374,360	437,321	471,940	505,771	515,358	561,803	568,242	526,224	558,742
Natural gas	10,891	20,061	51,061	72,938	64,102	77,716	74,150	85,634	91,736	81,628	83,512
Petroleum products ²	47,942	103,372	237,628	223,597	235,328	229,976	237,110	268,447	267,621	232,367	262,912
Motor gasoline	31,596	59,446	124,408	118,048	126,558	130,068	136,647	148,344	149,668	132,730	149,260
Coal	4,594	13,047	22,648	29,723	28,372	27,186	26,861	27,369	27,523	27,195	25,920
Electricity sales	23,345	50,680	98,095	149,233	176,737	200,883	205,932	211,011	213,645	216,928	216,737
Residential sector	20,151	36,988	69,524	99,009	110,057	126,963	128,423	138,030	138,954	135,044	137,348
Commercial sector ³	10,654	22,839	46,888	70,289	78,884	89,409	91,587	95,899	100,296	98,249	98,059
Industrial sector ³	16,678	41,068	94,268	106,835	102,330	109,196	107,599	119,712	120,042	108,282	114,318
Transportation sector ²	35,379	70,933	163,680	161,188	180,668	180,204	187,749	208,161	208,950	184,649	209,017
Motor gasoline	30,525	57,992	121,809	115,205	123,845	128,112	134,641	146,106	147,164	130,709	147,592
Electric utilities ³	-4,316	-16,396	-37,435	-42,558	38,325	36,138	34,820	36,677	37,808	37,573	36,550
AVERAGE FUEL PRICES (dol. per mil. Btu)											
All sectors ³	1.65	3.33	6.89	8.36	8.27	8.29	8.29	8.76	8.82	8.19	8.41
Residential sector	2.11	3.81	7.44	10.93	11.91	12.63	12.57	12.67	13.23	13.43	13.15
Commercial sector ³	1.96	4.09	7.88	11.70	12.00	12.87	12.75	12.88	13.15	13.13	12.82
Industrial sector ³	0.98	2.12	5.15	6.27	5.21	4.52	4.37	5.17	4.88	4.26	4.45
Transportation sector	2.31	4.02	8.61	8.26	8.28	7.91	8.09	8.76	8.70	7.48	8.19
Electric utilities ³	0.32	0.96	1.75	1.85	1.46	1.30	1.23	1.28	1.30	1.24	1.21

¹ Includes electricity sales; excludes electricity generation. ² Includes sources or fuel types not shown separately. ³ There are no direct fuel costs for hydroelectric, geothermal, wind, photovoltaic, or solar thermal energy.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report*, annual. See also <<http://tonto.eia.doe.gov/FTP/PROOT/multifuel/037697.pdf>> (released July 2001).

No. 883. Energy Expenditures—End-Use Sector and Selected Source by State: 1999

[In millions of dollars (**558,742** represents **\$558,742,000,000**). End-use sector and electric utilities exclude expenditures on energy sources such as hydroelectric, photovoltaic, solar thermal, wind, and geothermal. Also excludes expenditures for reported amounts of energy consumed by the energy industry for production, transportation, and processing operations]

State	End-use sector					Source			
	Total ¹	Residen- tial	Commer- cial	Industrial	Transpor- tation	Petroleum products	Natural gas	Coal	Electricity sales
U.S.	558,742	137,348	98,059	114,318	209,017	262,912	83,512	25,920	216,737
AL	10,076	2,463	1,465	2,527	3,621	4,221	1,200	1,284	4,367
AK	2,040	342	354	197	1,147	1,357	235	23	515
AZ	9,013	2,303	1,845	998	3,866	4,212	723	545	4,170
AR	5,990	1,423	707	1,591	2,269	2,774	948	391	2,215
CA	56,007	12,110	10,170	8,875	24,852	26,691	9,102	111	20,360
CO	7,003	1,652	1,359	835	3,156	3,510	1,123	352	2,395
CT	7,111	2,310	1,650	770	2,380	3,414	885	(2)	2,968
DE	1,728	483	316	348	581	808	260	56	745
DC	1,311	266	771	18	257	287	255	(2)	777
FL	25,295	7,684	5,004	2,330	10,277	12,275	1,954	1,071	12,819
GA	15,524	3,795	2,631	2,925	6,174	7,162	1,170	1,231	6,989
HI	2,144	427	408	393	917	1,243	39	5	1,107
ID	2,572	504	370	555	1,143	1,386	269	10	884
IL	23,932	6,202	4,682	5,035	8,014	9,899	4,716	1,212	9,182
IN	14,174	3,158	1,724	4,263	5,029	6,090	2,591	1,752	5,070
IA	6,631	1,586	905	1,851	2,289	3,220	1,073	381	2,255
KS	6,033	1,372	1,009	1,536	2,116	3,071	959	315	2,091
KY	9,110	1,764	1,086	2,624	3,636	4,877	840	991	3,268
LA	13,436	2,278	1,498	5,147	4,513	6,569	3,140	318	4,460
ME	2,987	873	492	573	1,049	1,706	37	7	1,167
MD	9,885	2,891	2,251	1,056	3,687	4,521	1,326	417	4,158
MA	12,022	3,503	2,548	1,888	4,084	5,241	2,321	24	4,440
MI	19,786	4,999	3,831	4,115	6,842	8,483	3,814	1,126	7,354
MN	9,674	2,216	1,191	2,131	4,137	4,927	1,367	387	3,312
MS	6,091	1,351	875	1,309	2,556	3,056	834	214	2,443
MO	11,344	2,915	1,928	1,621	4,880	5,778	1,396	647	4,186
MT	2,055	372	283	424	975	1,178	237	128	625
NE	3,571	770	579	645	1,577	1,876	487	113	1,212
NV	3,956	855	592	740	1,770	1,920	656	233	1,532
NH	2,631	798	523	376	934	1,369	129	54	1,147
NJ	17,716	4,883	4,052	2,611	6,171	7,852	2,932	99	7,034
NM	3,450	668	657	495	1,631	1,951	406	396	1,169
NY	31,999	10,696	9,209	3,496	8,598	11,766	6,910	282	13,868
NC	15,678	4,402	2,725	2,897	5,654	7,050	1,119	1,029	7,412
ND	1,713	329	227	510	647	877	148	426	497
OH	25,330	6,495	4,295	6,162	8,378	10,280	4,206	1,905	10,435
OK	7,160	1,649	1,051	1,516	2,944	3,464	1,635	311	2,499
OR	6,530	1,378	951	1,188	3,013	3,331	915	42	2,297
PA	23,152	6,916	3,763	4,342	8,131	10,203	3,990	1,562	8,590
RI	1,981	571	384	404	622	827	497	(2)	617
SC	8,313	2,162	1,284	1,919	2,949	3,429	718	591	4,086
SD	1,521	363	226	247	685	876	136	48	503
TN	11,724	2,802	2,019	2,342	4,561	5,207	1,186	732	5,208
TX	54,085	9,658	6,973	19,974	17,481	29,927	9,070	1,860	17,976
UT	3,669	710	568	554	1,837	2,024	545	409	1,052
VT	1,344	415	262	161	507	726	41	5	568
VA	13,248	3,664	2,481	1,843	5,261	8,511	1,418	575	5,435
WA	10,702	2,260	1,555	1,880	5,007	5,701	1,015	153	3,925
WI	3,754	906	558	904	1,387	1,714	533	1,194	1,373
WV	10,551	2,557	1,572	2,501	3,920	7,615	1,792	510	3,489
WY	1,852	201	200	538	913	1,703	216	392	495

Z Less than \$500,000. ¹ Includes sources not shown separately. Total expenditures are the sum of purchases for each source (including electricity sales) less electric utility purchases of fuel.

Source: U.S. Energy Information Administration, *State Energy Price and Expenditure Report, 1999*, Series DOE/EIA-0376(99). See also <<http://www.eia.doe.gov/pub/state.prices/pdf/seper.pdf>> (released November 2001).

No. 884. Manufacturing Energy Consumption for all Purposes by Type of Fuel and Major Industry Group: 1998

[In trillions of Btu (23,783 represents 23,783,000,000,000). Estimates represented consumption of energy for all purposes (First Use) represents unduplicated demand for energy by manufacturers. "First Use" is all energy produced offsite, all energy produced onsite, either directly from captive minesand wells or as byproducts from nonenergy materials (such as sawdust from furniture production, hydrogen from electrolysis of brine, nut shells from peanut processing). Based on the Manufacturing Energy Consumption Survey and subject to sampling variability]

Industry	NAICS ¹ code	Net elec- tricity ²		Resi- dual fuel oil	Distil- late fuel oil ³	Natural gas ⁴	LPG and NGL ⁵	Coal	Coke and breeze	Other ⁶
		Total								
All industries, total.	(X)	23,783	3,035	406	142	7,426	1,882	1,814	461	8,967
Food and kindred products	311	1,044	213	14	16	568	5	129	2	97
Beverage and tobacco products	312	108	24	2	2	45	1	29	-	4
Textile mills	313	256	102	12	4	103	2	20	-	14
Textile product mills	314	50	18	3	(S)	25	(Z)	3	-	(Z)
Apparel	315	48	18	2	1	23	1	1	-	4
Leather and allied products	316	8	3	(Z)	(Z)	4	(Z)	-	-	(Z)
Wood products	321	509	72	1	13	73	4	2	-	343
Paper	322	2,733	240	151	9	586	5	277	-	1,465
Printing and Related Support	323	98	51	(Z)	(Z)	44	1	(Z)	-	2
Petroleum and coal products	324	7,320	126	72	28	1,007	39	12	-	6,082
Petroleum refineries	324110	7,130	118	70	4	948	33	(Z)	-	5,957
Chemicals	325	6,064	577	98	10	2,709	1,796	300	7	677
Petrochemicals	325110	723	8	-	(Z)	(D)	222	(D)	-	(D)
Other basic organic chemicals	325199	1,740	73	3	(D)	782	639	(D)	-	201
Plastics materials and resins	325211	1,067	66	2	1	259	675	17	(Z)	60
Nitrogenous fertilizers	325311	592	13	-	(Z)	572	(Z)	-	-	6
Plastics and rubber products	326	328	183	5	1	126	5	3	-	5
Nonmetallic mineral products	327	979	134	4	17	444	3	284	11	82
Primary metals	331	2,560	545	30	9	933	3	715	437	82
Iron and Steel mills	331111	1,584	158	29	5	494	(Z)	680	388	22
Alumina and aluminum	3313	490	246	(Z)	1	189	1	2	2	49
Primary aluminum	331312	254	196	(Z)	(Z)	(D)	(Z)	(D)	-	41
Fabricated metal products	332	445	176	2	6	241	5	3	3	10
Machinery	333	217	96	1	3	99	3	6	-	7
Computer and electronic products, Electrical equipment, appliances, and component	334	205	137	1	1	64	(Z)	(Z)	-	1
Computer and electronic products	335	143	55	1	1	53	2	1	(Z)	30
Transportation equipment	336	492	195	5	15	212	4	29	1	31
Furniture and related products	337	88	30	(Z)	1	27	1	2	-	28
Miscellaneous	339	89	40	1	2	40	1	(Z)	-	4

- Represents or rounds to zero. D Withheld to avoid disclosing data for individual establishments. S Withheld because Relative Standard Error is greater than 50 percent. X Not applicable. Z Less than 0.5 trillion Btu. ¹ North American Industrial Classification System; see text, Section 15, Business Enterprise. ² Net electricity is obtained by aggregating purchases, transfers in, and generation from noncombustible renewable resources minus quantities sold and transferred out. Excludes electricity inputs from onsite cogeneration or generation from combustible fuels because that energy has already been included as generating fuel (for example, coal). ³ Includes Nos. 1, 2, and 4 fuel oils and Nos. 1, 2, and 4 diesel fuels. ⁴ Includes natural gas obtained from utilities, transmission pipelines, and any other supplier such as brokers and producers. ⁵ Liquid petroleum gas and natural gas liquids. ⁶ Includes net steam, and other energy that respondents indicated was used to produce heat and power or as feedstock/raw material inputs.

Source: U.S. Energy Information Administration, <<http://www.eia.doe.gov/emeu/mecs/mecs98/datatables/contnets.html>> (accessed 22 January 2001).

No. 885. Fossil Fuel Prices in Current and Constant (1996) Dollars by Type of Fuel: 1980 to 2000

[In cents per million British thermal units (Btu), except as indicated. All fuel prices taken as close to the point of production as possible. See text, this section, for explanation of Btu conversions from mineral fuels]

Fuel	1980	1985	1990	1993	1994	1995	1996	1997	1998	1999	2000
CURRENT DOLLARS											
Composite ¹	2.04	2.51	1.84	1.67	1.53	1.47	1.82	1.81	1.40	1.64	2.57
Crude oil ²	3.72	4.15	3.45	2.46	2.27	2.52	3.18	2.97	1.87	2.68	4.61
Natural gas ³	1.45	2.26	1.55	1.84	1.67	1.40	1.96	2.10	1.75	1.95	3.24
Bituminous coal ⁴	1.10	1.15	1.00	0.93	0.91	0.88	0.87	0.85	0.82	0.80	⁰ 0.80
CONSTANT (1996) DOLLARS											
Composite ¹	3.58	3.41	2.13	1.78	1.59	1.50	1.82	1.77	1.36	1.57	2.40
Crude oil ²	6.52	5.64	3.99	2.61	2.37	2.57	3.18	2.91	1.82	2.56	4.31
Natural gas ³	2.54	3.06	1.79	1.96	1.74	1.43	1.96	2.06	1.69	1.86	3.03
Bituminous coal ⁴	1.93	1.56	1.15	0.99	0.94	0.90	0.87	0.84	0.80	0.76	⁰ 0.74

¹ Weighted by relative importance of individual fuels in total fuels production. ² Domestic first purchase prices. ³ Wellhead prices. ⁴ Includes subbituminous and lignite. ⁵ Calculated using the 1999 coal price for the 2000 value.

Source: U.S. Energy Information Administration, *Annual Energy Review*. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>> (released July 2001).

No. 886. Energy Imports and Exports by Type of Fuel: 1980 to 2000

[In quadrillion of Btu. For definition of Btu, see text, this section]

Type of fuel	1980	1985	1990	1993	1994	1995	1996	1997	1998	1999	2000 ¹
Net imports, total²	12.25	7.87	14.09	17.22	18.65	18.03	19.35	20.94	22.47	23.74	24.42
Coal	-2.39	-2.39	-2.70	-1.76	-1.66	-2.08	-2.17	-2.01	-1.87	-1.30	-1.21
Natural gas (dry)	0.96	0.90	1.46	2.25	2.52	2.74	2.85	2.90	3.06	3.50	3.57
Petroleum ³	13.50	8.95	15.29	16.40	17.26	16.89	18.23	19.64	20.94	21.18	21.63
Other ⁴	0.18	0.41	0.03	0.32	0.53	0.47	0.45	0.40	0.34	0.36	0.43
Imports, total	15.97	12.10	18.95	21.50	22.73	22.57	24.01	25.51	26.86	27.55	28.52
Coal	0.03	0.05	0.07	0.20	0.22	0.24	0.20	0.19	0.22	0.23	0.31
Natural gas (dry)	1.01	0.95	1.55	2.40	2.68	2.90	3.00	3.06	3.22	3.66	3.81
Petroleum ³	14.66	10.61	17.12	18.51	19.24	18.88	20.29	21.74	22.91	23.13	23.78
Other ⁴	0.28	0.49	0.22	0.39	0.58	0.55	0.52	0.52	0.50	0.52	0.61
Exports, total	3.72	4.23	4.87	4.28	4.08	4.54	4.66	4.58	4.39	3.81	4.10
Coal	2.42	2.44	2.77	1.96	1.88	2.32	2.37	2.19	2.09	1.53	1.53
Natural gas (dry)	0.05	0.06	0.09	0.14	0.16	0.16	0.16	0.16	0.16	0.16	0.24
Petroleum ³	1.16	1.66	1.82	2.12	1.99	1.99	2.06	2.10	1.97	1.95	2.15
Other ⁴	0.09	0.08	0.18	0.06	0.05	0.07	0.07	0.12	0.16	0.17	0.18

¹ Preliminary. ² Net imports equals imports minus exports. Minus sign (-) denotes an excess of exports over imports.
³ Includes imports into the Strategic Petroleum Reserve, which began in 1977. ⁴ Coal coke and small amounts of electricity transmitted across U.S. borders with Canada and Mexico.
 Source: U.S. Energy Information Administration, *Annual Energy Review*. See also <<http://www.eia.doe.gov/pub/pdf/multi.fuel/038400.pdf>> (released August 2001).

No. 887. U.S. Foreign Trade in Selected Mineral Fuels: 1980 to 2000

[Minus sign (-) indicates an excess of imports over exports]

Mineral fuel	Unit	1980	1985	1990	1995	1996	1997	1998	1999	2000 ¹
Natural gas:										
Imports	Bil. cu. ft.	985	950	1,532	2,841	2,937	2,994	3,152	3,586	3,726
Exports	Bil. cu. ft.	49	55	86	154	153	157	159	163	237
Net trade	Bil. cu. ft.	-936	-894	-1,446	-2,687	-2,784	-2,837	-2,993	-3,423	-3,489
Crude oil:										
Imports ²	Mil. bbl.	1,926	1,168	2,151	2,639	2,740	3,002	3,178	3,187	3,260
Exports	Mil. bbl.	105	75	40	35	40	39	40	43	18
Net trade	Mil. bbl.	-1,821	-1,093	-2,112	-2,604	-2,700	-2,963	-3,138	-3,144	-3,242
Petroleum products:										
Imports ²	Mil. bbl.	603	681	775	586	719	707	731	773.8	788.4
Exports	Mil. bbl.	94	211	273	312	318	318	327	343.1	379.6
Net trade	Mil. bbl.	-509	-470	-502	-274	-402	-389	-404	-431	-409
Coal: ²										
Imports	Mil. sh. tons.	1.2	2.0	2.7	9.5	8.1	7.5	8.7	9.1	12.5
Exports	Mil. sh. tons.	91.7	92.7	105.8	88.5	90.5	83.5	78.0	58.5	58.5
Net trade	Mil. sh. tons.	90.5	90.7	103.1	79.1	82.4	76.1	69.3	49.4	46.0

¹ Preliminary. ² Beginning 1980, includes strategic petroleum reserve imports.
 Source: U.S. Energy Information Administration, *Annual Energy Review*. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>> (accessed April 2002).

No. 888. Crude Oil Imports Into the U.S. by Country of Origin: 1980 to 2000

[In millions of barrels (1,921 represents 1,921,000,000). Barrels contain 42 gallons]

Country of origin	1980	1985	1990	1993	1994	1995	1996	1997	1998	1999	2000
Total imports	1,921	1,168	2,151	2,477	2,578	2,639	2,748	3,002	3,178	3,187	3,320
OPEC,¹ total	1,410	479	1,283	1,317	1,307	1,303	1,258	1,378	1,522	1,543	1,663
Algeria	166	31	23	9	8	10	3	2	4	9	211
Iraq	10	17	188	-	-	-	-	33	123	265	227
Kuwait ²	10	1	29	126	112	78	86	92	109	90	96
Qatar	8	-	1	-	-	-	-	-	1	-	-
Saudi Arabia ²	456	48	436	468	473	460	457	472	512	506	558
United Arab Emirates	63	13	3	4	4	2	1	-	1	-	1
Indonesia	115	107	36	24	34	23	16	19	18	25	13
Nigeria	307	102	286	264	228	227	218	252	251	227	320
Venezuela	57	112	243	369	377	420	477	509	503	420	448
Non-OPEC,³ total	511	689	869	1,160	1,271	1,336	1,490	1,624	1,656	1,643	1,657
Canada	73	171	235	329	359	380	394	437	462	430	493
Ecuador ⁴	6	20	14	28	33	35	35	42	36	42	46
Gabon	9	19	23	55	71	84	67	84	76	61	52
Malaysia	(NA)	(NA)	(NA)	4	2	2	2	3	9	8	11
Mexico	185	261	251	315	343	375	442	496	482	458	480
Norway	53	11	35	50	69	94	107	105	81	96	111
Trinidad and Tobago	42	36	28	20	23	23	21	20	19	15	20
United Kingdom	63	101	57	114	145	124	79	62	59	104	106

- Represents zero. NA Not available. ¹ OPEC (Organization of Petroleum Exporting Countries) includes the Persian Gulf nations shown below, except Bahrain, which is not a member of OPEC, and also includes nations shown under "Other OPEC." ² Imports from the Neutral Zone between Kuwait and Saudi Arabia are included in Saudi Arabia. ³ Includes petroleum imported into the United States indirectly from member of OPEC, primarily from Caribbean and West European areas, as petroleum products that were refined from crude oil produced by OPEC. ⁴ Ecuador withdrew from OPEC on Dec. 31, 1992; therefore, it is included under OPEC for the period 1980 to 1992. ⁵ Gabon withdrew from OPEC on Dec. 31, 1994; therefore, it is included under OPEC for the period 1980 to 1994.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*, Vol. I.

No. 889. Crude Oil and Refined Products—Summary: 1980 to 2001

[12,442 represents 12,442,000 bbl. Barrels of 42 gallons. Data are averages]

Year	Crude oil (1,000 bbl. per day)					Refined oil products (1,000 bbl. per day)			Crude oil stocks ³ (mil. bbl.)		
	Input to refiner- ies	Domestic produc- tion	Imports		Exports	Domestic demand	Imports	Exports	Total oil imports ² (1,000 bbl. per day)	Total	Strategic reserve
			Total ¹	Strate- gic reserve							
1980	13,481	8,597	5,263	44	287	17,056	1,646	258	6,909	466	108
1985	12,002	8,971	3,201	118	204	15,726	1,866	577	5,067	814	493
1990	13,409	7,355	5,894	27	109	16,988	2,123	748	8,018	908	586
1991	13,301	7,417	5,782	-	116	16,714	1,844	885	7,627	893	569
1992	13,411	7,171	6,083	10	89	17,033	1,805	861	7,888	893	575
1993	13,613	6,847	6,787	15	98	17,237	1,833	904	8,620	922	587
1994	13,866	6,662	7,063	12	99	17,718	1,933	843	8,996	929	592
1995	13,973	6,560	7,230	-	95	17,725	1,605	855	8,835	895	592
1996	14,195	6,465	7,508	-	110	18,309	1,971	871	9,478	850	566
1997	14,662	6,452	8,225	-	108	18,620	1,936	896	10,162	868	563
1998	14,889	6,252	8,706	-	110	18,917	2,002	835	10,708	895	571
1999	14,804	5,881	8,731	8	118	19,519	2,122	822	10,852	852	567
2000	15,067	5,822	9,071	8	50	19,701	2,389	990	11,459	826	541
2001	15,130	5,853	9,146	11	23	19,593	2,473	959	11,619	862	550

- Represents zero. X Not applicable. ¹ Includes Strategic Petroleum Reserve. ² Crude oil (including Strategic Petroleum Reserve imports) plus refined products. ³ End of year. ⁴ Estimate.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, March 2002 issue.

No. 890. Petroleum and Coal Products Corporations—Sales, Net Profit, and Profit Per Dollar of Sales: 1990 to 2001

[Represents SIC group 29. Through 2000 based on Standard Industrial Classification code; beginning 2001 based on North American Industry Classification System. Profit rates are averages of quarterly figures at annual rates. Beginning 1990, excludes estimates for corporations with less than \$250,000 in assets]

Item	Unit	1990	1991	1992	1994	1995	1996	1997	1998	1999	2000	2001
Sales	Bil. dol.	318.5	282.2	278.0	268.2	283.1	323.5	320.0	250.4	277.0	455.2	469.9
Net profit:												
Before income taxes	Bil. dol.	23.1	12.1	2.0	17.2	16.5	32.6	36.8	9.7	20.3	55.5	47.0
After income taxes	Bil. dol.	17.8	10.8	3.1	14.9	13.9	26.6	29.4	8.3	17.2	42.6	35.6
Depreciation ¹	Bil. dol.	18.7	18.0	18.3	17.1	16.7	15.9	15.6	14.7	13.5	15.5	17.1
Profits per dollar of sales:												
Before income taxes	Cents	7.3	4.3	0.4	6.3	5.8	10.1	11.5	3.5	7.1	12.2	9.7
After income taxes	Cents	5.6	3.8	0.9	5.5	4.9	8.2	9.2	3.1	6.0	9.4	7.4
Profits on stockholders' equity:												
Before income taxes	Percent	16.4	8.6	1.6	13.2	12.6	23.2	23.5	6.0	13.0	29.4	21.8
After income taxes	Percent	12.7	7.6	2.5	11.4	10.6	18.9	18.9	5.2	11.0	22.6	16.5

¹ Includes depletion and accelerated amortization of emergency facilities.

Source: U.S. Census Bureau, *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*.

No. 891. Major Petroleum Companies—Financial Summary: 1980 to 2001

[Data represent a composite of approximately 42 major worldwide petroleum companies aggregated on a consolidated total company basis]

Item	1980	1985	1990	1995	1996	1997	1998	1999	2000	2001
FINANCIAL DATA (bil. dol.)										
Net income	32.9	19.4	26.8	24.3	39.7	40.0	14.5	35.3	76.4	61.2
Depreciation, depletion, etc	32.5	53.0	38.7	43.1	44.4	46.0	61.0	45.0	53.3	62.2
Cash flow ¹	65.4	72.4	65.5	67.4	84.1	86.0	75.5	75.3	129.7	138.1
Dividends paid	9.3	12.0	15.9	17.6	18.9	20.1	20.9	21.7	23.0	29.6
Net internal funds available for investment or debt repayment ²	56.1	60.4	49.6	49.8	65.2	65.9	54.6	54.1	106.7	108.6
Capital and exploratory expenditures	62.1	58.3	59.6	59.8	59.3	75.3	83.9	67.7	72.8	97.5
Long-term capitalization	211.4	272.1	300.0	304.3	336.6	372.5	382.0	456.2	516.9	535.7
Long-term debt	49.8	93.5	90.4	85.4	80.8	86.1	103.9	105.4	112.8	140.9
Preferred stock	2.0	3.3	5.2	5.7	5.8	5.1	3.9	4.8	5.4	6.5
Common stock and retained earnings ³	159.6	175.3	204.4	213.2	250.0	281.3	274.2	346.0	398.7	388.3
Excess of expenditures over cash income ⁴	6.0	-2.1	10.0	10.0	-5.9	9.4	29.3	13.6	-33.9	-11.1
RATIOS ⁵ (percent)										
Long-term debt to long-term capitalization	23.6	34.4	30.1	28.1	24.0	23.1	27.2	23.1	21.8	26.6
Net income to total average capital	17.0	7.0	9.1	8.1	12.4	11.3	3.8	8.9	15.7	12.3
Net income to average common equity	22.5	10.8	13.5	11.6	17.1	15.1	5.2	12.4	20.5	16.3

¹ Generally represents internally-generated funds from operations. Sum of net income and noncash charges such as depreciation, depletion, and amortization. ² Cash flow minus dividends paid. ³ Includes common stock, capital surplus, and earned surplus accounts after adjustments. ⁴ Capital and exploratory expenditures plus dividends paid minus cash flow. ⁵ Represents approximate year-to-year comparisons because of changes in the makeup of the group due to mergers and other corporate changes.

Source: Carl H. Pforzheimer & Co., New York, NY, *Comparative Oil Company Statements*, annual.

No. 892. Electric Power Industry—Sales, Prices, Net Generation, Net Summer Capability, and Consumption of Fuels: 1990 to 2000

[Net generation for calendar years; capability as of December 31]

Item	Unit	1990	1995	1997	1998	1999	2000
ELECTRIC POWER INDUSTRY							
Consumption, total	Bil. kWh	2,816.7	3,162.4	3,294.6	3,424.0	3,509.9	3,606.5
Net generation, total	Bil. kWh	3,024.9	3,357.8	3,494.2	3,617.9	3,706.1	3,791.9
Electric utilities	Bil. kWh	2,808.2	2,994.5	3,122.5	3,212.2	3,173.7	3,009.5
Nonutilities	Bil. kWh	216.7	363.3	371.7	405.7	532.5	782.4
Electricity imports	Bil. kWh	18.4	42.9	43.0	39.5	42.9	50.4
Electricity exports	Bil. kWh	16.1	3.6	9.0	13.2	14.0	14.8
Electricity losses and unaccounted for	Bil. kWh	210.4	234.6	233.7	220.1	234.1	221.0
Electric utility retail sales of electricity	Bil. kWh	2,712.6	3,013.3	3,145.6	3,264.2	3,312.1	3,398.1
Direct use of electricity at nonutilities	Bil. kWh	104.2	149.2	149.0	159.8	188.8	208.4
Electricity retail prices per kWh:							
All sectors, current dollars	Cents	6.57	6.89	6.85	6.74	6.66	6.66
All sectors, real (1996) dollars	Cents	7.59	7.02	6.72	6.53	6.36	6.23
Residential, current dollars	Cents	7.83	8.40	8.43	8.26	8.16	8.21
Residential, real (1996) dollars	Cents	9.05	8.56	8.27	8.00	7.79	7.68
Commercial, current dollars	Cents	7.34	7.69	7.59	7.41	7.26	7.20
Commercial, real (1996) dollars	Cents	8.48	7.84	7.44	7.18	6.93	6.73
Industrial, current dollars	Cents	4.74	4.66	4.53	4.48	4.43	4.45
Industrial, real (1996) dollars	Cents	5.48	4.75	4.44	4.34	4.23	4.16
Other users, current dollars	Cents	6.40	6.88	6.91	6.63	6.35	6.37
Other users, real (1996) dollars	Cents	7.40	7.01	6.78	6.42	6.06	5.96
Net generation, total ¹	Bil. kWh	3,024.9	3,357.8	3,494.2	3,617.9	3,706.1	3,791.9
Coal	Bil. kWh	1,590.3	1,710.2	1,844.1	1,873.9	1,884.3	1,964.6
Petroleum	Bil. kWh	124.0	75.3	93.0	126.9	123.6	108.9
Natural gas	Bil. kWh	378.3	498.5	485.4	540.6	556.2	595.8
Nuclear	Bil. kWh	577.0	673.4	628.6	673.7	728.3	753.9
Hydroelectric pumped storage plants	Bil. kWh	-3.5	-2.7	-4.0	-4.4	-6.3	-5.6
Conventional hydroelectric power plants	Bil. kWh	293.0	311.0	358.9	323.3	319.5	274.6
Geothermal	Bil. kWh	15.8	14.4	14.6	14.7	16.8	14.2
Wood	Bil. kWh	30.4	36.4	34.2	31.8	37.6	39.5
Waste	Bil. kWh	10.8	16.9	17.6	18.1	20.2	21.2
Other waste	Bil. kWh	2.3	3.4	3.0	3.2	3.3	3.4
Wind	Bil. kWh	3.0	3.2	3.2	3.0	4.5	4.9
Solar	Bil. kWh	0.6	0.8	0.9	0.9	0.8	0.8
Net summer capability, total ¹	Mil. kW	734.9	769.5	778.5	775.9	794.9	818.5
Coal-fired plants	Mil. kW	306.7	310.8	313.1	312.6	321.7	322.3
Petroleum-fired plants	Mil. kW	56.7	48.0	46.3	42.2	34.8	39.3
Natural gas-fired plants	Mil. kW	31.0	41.9	49.9	59.1	82.1	96.7
Dual-fired plants	Mil. kW	133.5	152.4	153.6	148.0	141.4	145.5
Nuclear electric power plants	Mil. kW	99.6	99.5	99.7	97.1	97.5	97.4
Hydroelectric pumped storage plants	Mil. kW	19.5	21.4	19.3	18.9	19.5	19.6
Conventional hydroelectric power plants	Mil. kW	74.0	78.6	79.8	79.6	79.5	79.5
Geothermal energy plants	Mil. kW	2.7	3.0	2.9	2.9	2.9	2.9
Wood energy plants	Mil. kW	6.2	6.8	7.1	6.8	6.7	6.8
Waste energy plants	Mil. kW	2.6	3.5	3.4	3.5	4.3	4.3
Wind energy plants	Mil. kW	1.9	1.7	1.6	1.7	2.3	2.3
Solar energy plants	Mil. kW	0.3	0.3	0.3	0.4	0.4	0.4
Fuel consumption:							
Coal	Mil. sh. tons	805.9	879.3	953.3	967.7	951.6	991.3
Distillate fuel and kerosene	Mil. bbl	14.8	15.6	15.2	22.0	34.8	30.8
Residual fuel	Mil. bbl	209.1	121.6	145.6	210.8	160.7	143.4
Petroleum	Mil. bbl	233.6	161.9	189.6	264.1	218.1	195.5
Natural gas	Bil. cu. ft.	4,174.1	5,500.5	5,199.8	5,924.5	5,679.9	6,325.0
ELECTRIC UTILITIES							
Net generation, total ¹	Bil. kWh	2,808.2	2,994.5	3,122.5	3,212.2	3,173.7	3,009.5
Coal	Bil. kWh	1,559.6	1,652.9	1,787.8	1,807.5	1,767.7	1,692.3
Petroleum	Bil. kWh	117.0	60.8	77.8	110.2	86.9	72.3
Natural gas	Bil. kWh	264.1	307.3	283.6	309.2	296.4	289.8
Nuclear	Bil. kWh	576.9	673.4	628.6	673.7	725.0	705.4
Hydroelectric pumped storage plants	Bil. kWh	-3.5	-2.7	-4.0	-4.4	-6.0	-5.3
Conventional hydroelectric power plants	Bil. kWh	283.4	296.4	341.3	308.8	299.9	252.9
Net summer capability, total ¹	Mil. kW	690.5	706.1	711.9	686.7	639.3	602.4
Coal-fired plants	Mil. kW	299.9	300.6	302.9	299.7	277.8	259.1
Petroleum-fired plants	Mil. kW	55.4	46.1	43.7	39.8	31.5	26.2
Natural gas-fired plants	Mil. kW	15.0	17.7	22.9	26.2	37.4	39.0
Dual-fired plants	Mil. kW	127.5	143.2	144.9	127.2	103.5	99.9
Nuclear electric power plants	Mil. kW	99.6	99.5	99.7	97.1	95.0	85.5
Hydroelectric pumped storage plants	Mil. kW	19.5	21.4	19.3	18.9	18.9	17.9
Conventional hydroelectric power plants	Mil. kW	71.4	75.3	76.2	75.5	74.1	73.7
NONUTILITY PLANTS							
Net generation, total ¹	Bil. kWh	216.7	363.3	371.7	405.7	532.5	782.4
Coal	Bil. kWh	30.7	57.3	56.3	66.5	116.7	272.4
Petroleum	Bil. kWh	7.0	14.4	15.3	16.8	36.6	36.6
Natural gas	Bil. kWh	114.3	191.2	201.8	231.4	259.8	306.0
Net summer capability, total ¹	Mil. kW	44.5	63.4	66.6	89.2	158.9	216.1
Coal-fired plants	Mil. kW	6.8	10.2	10.3	12.8	44.0	63.2
Petroleum-fired plants	Mil. kW	1.2	2.0	2.7	2.4	3.4	13.0
Natural gas-fired plants	Mil. kW	16.0	24.2	26.9	32.9	44.7	57.8
Dual-fired plants	Mil. kW	6.0	9.2	8.8	20.8	37.9	45.5

¹ Includes types not shown separately.

Source: U.S. Energy Information Administration, *Electric Power Annual* and *Annual Energy Review*.

No. 893. Electric Utility Industry—Capacity, Peak Load, and Capacity Margin: 1980 to 2000

[Excludes Alaska and Hawaii. Capacity represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions, allowing for maintenance, emergency outages, and system operating requirements. Capacity margin is the difference between capacity and peak load]

Year	Capacity at the time of—				Noncoincident peak load		Capacity margin			
	Summer peak load (1,000 kW)		Winter peak load (1,000 kW)		Summer	Winter	Summer		Winter	
	Amount	Change from prior year	Amount	Change from prior year			Amount (1,000 kW)	Percent of capacity	Amount (1,000 kW)	Percent of capacity
1980	558,237	13,731	572,195	17,670	427,058	384,567	131,179	23.5	187,628	32.8
1981	572,219	13,982	586,569	14,374	429,349	397,800	142,870	25.0	188,769	32.2
1982	586,142	13,923	598,066	11,497	415,618	373,985	170,524	29.1	224,081	37.5
1983	596,449	10,307	612,453	14,387	447,526	410,779	148,923	25.0	201,674	32.9
1984	604,240	7,791	622,125	9,672	451,150	436,374	153,090	25.3	185,751	29.9
1985	621,597	17,357	636,475	14,350	460,503	423,660	161,094	25.9	212,815	33.4
1986	633,291	11,694	646,721	10,246	476,320	422,857	156,971	24.8	223,864	34.6
1987	648,118	14,827	662,977	16,256	496,185	448,277	151,933	23.4	214,700	32.4
1988	661,580	13,462	676,940	13,963	529,460	466,533	132,120	20.0	210,407	31.1
1989	673,316	11,736	685,249	8,309	523,432	496,378	149,884	22.3	188,871	27.6
1990	685,091	11,775	696,757	11,508	545,537	484,014	139,554	20.4	212,743	30.5
1991	690,915	5,824	703,212	6,455	551,320	485,435	139,595	20.2	217,777	31.0
1992	695,436	4,521	707,752	4,540	548,707	492,983	146,729	21.1	214,769	30.3
1993	694,250	-1,186	711,957	4,205	575,356	521,733	118,894	17.1	190,224	26.7
1994	702,985	8,735	715,090	3,133	585,320	518,253	117,665	16.7	196,837	27.5
1995	714,222	11,237	727,679	12,589	620,249	544,684	93,973	13.2	182,995	25.1
1996	724,728	10,506	737,637	9,958	615,529	554,081	107,938	14.9	183,556	24.9
1997	725,829	1,101	736,666	-971	631,355	529,874	88,152	12.1	206,792	28.1
1998	724,193	-1,636	735,090	-1,576	660,293	567,558	63,900	8.8	167,532	22.8
1999	733,481	9,288	748,036	12,946	681,449	570,915	52,032	7.1	177,121	23.7
2000	750,771	17,290	767,505	19,469	678,413	588,426	72,358	9.6	179,079	23.3

Source: Edison Electric Institute, Washington, DC, *Statistical Yearbook of the Electric Utility Industry*, annual.

No. 894. Electric Energy Sales by Class of Service and State: 2000

[In billions of kilowatt-hours (3,309.6 represents 3,309,600,000,000)]

State	Total ¹	Residential	Commercial	Industrial	State	Total ¹	Residential	Commercial	Industrial
United States	3,309.6	1,183.1	1,000.9	1,017.7	Missouri	72.6	29.6	25.9	16.1
Alabama	83.5	28.8	19.1	35.0	Montana	12.5	3.9	3.5	4.8
Alaska	5.3	1.9	2.2	1.0	Nebraska	24.3	8.3	7.0	7.3
Arizona	61.0	24.8	21.3	12.0	Nevada	27.8	9.4	6.5	11.2
Arkansas	41.6	14.9	8.7	17.3	New Hampshire	10.0	3.6	3.6	2.6
California	221.3	78.0	82.5	53.1	New Jersey	62.8	24.1	27.3	10.9
Colorado	43.0	14.0	18.0	10.0	New Mexico	18.8	4.9	6.7	5.5
Connecticut	30.0	11.6	11.9	5.8	New York	124.5	41.6	47.0	23.5
Delaware	10.8	3.6	3.7	3.5	North Carolina	119.9	46.5	36.9	34.3
District of Columbia	10.6	1.6	8.3	0.3	North Dakota	9.4	3.4	2.6	3.0
Florida	195.8	99.0	72.1	18.9	Ohio	161.1	46.5	40.8	69.9
Georgia	119.2	44.6	37.0	36.1	Oklahoma	49.6	19.6	13.1	13.9
Hawaii	9.7	2.8	3.0	3.8	Oregon	50.3	18.2	15.3	16.4
Idaho	22.8	7.0	7.1	8.4	Pennsylvania	98.1	41.4	25.3	30.4
Illinois	125.6	40.1	39.2	36.5	Rhode Island	7.1	2.7	3.0	1.4
Indiana	97.8	28.6	20.5	48.0	South Carolina	77.0	25.3	17.5	33.3
Iowa	39.1	12.0	8.4	17.1	South Dakota	8.3	3.4	2.4	2.0
Kansas	35.9	12.5	12.5	10.2	Tennessee	95.7	36.6	25.8	32.3
Kentucky	78.3	23.4	13.9	37.7	Texas	318.3	116.9	84.8	101.6
Louisiana	80.7	27.7	18.2	32.0	Utah	23.2	6.5	7.9	7.9
Maine	6.4	1.3	2.8	2.3	Vermont	5.6	2.0	1.9	1.6
Maryland	60.6	23.9	25.8	10.1	Virginia	96.7	37.5	28.3	20.6
Massachusetts	48.9	17.5	20.9	9.8	Washington	93.2	33.0	24.0	32.1
Michigan	104.4	30.7	35.8	36.9	West Virginia	27.7	9.7	6.8	11.1
Minnesota	59.8	18.6	11.6	28.8	Wisconsin	65.1	19.9	18.3	26.2
Mississippi	45.3	17.2	11.5	15.9	Wyoming	12.4	2.1	2.7	7.3

¹ Includes "other service" not shown separately.

U.S. Energy Information Administration, *Electric Power Annual*, Volume 1. See <<http://www.eia.doe.gov/neaef/electricity/epav1/epav1.pdf>> (issued August 2001).

No. 895. Electric Utilities—Net Generation and Net Summer Capability by State: 1990 to 2000

[Capability as of Dec. 31. (2,808.2 represents 2,808,200,000) Covers utilities for public use]

State	Net generation (bil. kWh)					Net summer capability (mil. kW)			
	2000					1990	1995	1998	1999
	1990	1995	1999	Total	Percent from coal				
United States.	2,808.2	2,994.5	3,173.7	3,015.4	56.3	690.5	706.1	686.7	639.3
Alabama	76.2	99.6	113.9	118.0	65.2	20.0	20.5	21.3	21.5
Alaska	4.5	4.8	4.6	4.9	3.7	1.5	1.7	1.7	1.7
Arizona	62.3	69.0	83.1	88.2	46.1	14.9	15.2	15.1	15.1
Arkansas	37.1	39.5	44.1	41.5	58.0	9.6	9.6	9.6	9.3
California	114.5	121.9	87.9	85.9	-	43.7	43.3	30.7	24.3
Colorado	31.3	32.7	36.2	40.1	87.5	6.6	6.6	6.9	7.3
Connecticut	32.2	26.9	20.5	17.0	-	7.1	6.7	5.6	2.9
Delaware	7.1	8.3	6.2	4.1	80.2	2.0	2.2	2.3	2.3
District of Columbia	0.4	0.2	0.2	0.1	-	0.8	0.8	0.8	0.8
Florida	123.6	147.2	166.9	169.9	39.5	32.7	35.9	36.5	36.5
Georgia	97.6	102.0	110.5	116.2	68.0	20.7	22.3	23.4	23.3
Hawaii	8.0	6.2	6.5	6.5	-	1.5	1.6	1.6	1.6
Idaho	8.6	10.1	12.5	10.1	-	2.3	2.6	2.6	2.6
Illinois	127.0	145.2	149.8	113.6	26.9	32.6	33.1	30.4	17.0
Indiana	97.7	105.2	114.2	119.7	98.2	20.6	20.7	20.3	20.4
Iowa	29.0	33.5	37.0	39.6	85.4	8.0	8.2	8.4	8.4
Kansas	33.9	38.2	42.0	44.8	72.6	9.6	9.7	9.9	10.0
Kentucky	73.8	86.2	81.7	81.4	96.6	15.5	15.4	14.0	14.7
Louisiana	58.2	65.6	64.8	57.6	25.1	16.8	17.0	17.0	16.3
Maine	9.1	2.7	1.2	(Z)	-	2.4	2.4	1.5	0.1
Maryland	31.5	44.7	49.3	31.8	64.0	9.8	11.0	11.0	11.0
Massachusetts	36.5	27.0	4.4	1.7	64.2	9.9	9.3	3.4	2.2
Michigan	89.1	92.5	87.9	89.6	74.8	22.3	22.0	21.9	22.4
Minnesota	41.6	42.5	44.2	46.6	68.1	8.8	8.9	9.1	9.0
Mississippi	22.9	26.4	32.2	33.9	40.9	7.0	7.2	7.2	6.8
Missouri	59.0	65.4	73.5	76.3	82.1	15.2	15.7	16.3	16.8
Montana	25.7	25.4	27.6	6.6	4.9	4.9	4.9	4.9	3.0
Nebraska	21.6	25.3	30.0	29.0	63.4	5.5	5.5	5.8	5.8
Nevada	19.3	20.0	26.5	29.3	64.5	4.9	5.6	5.6	5.4
New Hampshire	10.8	13.9	13.9	12.7	31.2	2.6	2.5	2.3	2.3
New Jersey	36.5	27.1	38.9	25.3	21.0	13.7	13.8	13.4	12.1
New Mexico	28.5	29.4	31.7	32.9	88.5	5.0	5.1	5.3	5.3
New York	128.7	101.2	97.0	73.2	5.5	31.2	32.1	29.6	17.7
North Carolina	79.8	96.1	109.9	114.4	62.7	20.2	20.6	21.0	21.2
North Dakota	26.8	28.8	31.3	31.1	93.0	4.5	4.5	4.7	4.7
Ohio	126.5	137.9	140.9	144.4	87.4	27.0	27.4	26.8	27.1
Oklahoma	45.1	48.0	50.3	51.4	63.9	12.8	12.9	12.6	12.9
Oregon	49.2	44.0	51.7	46.1	8.2	11.2	10.4	10.4	10.3
Pennsylvania	165.7	168.9	161.6	97.1	37.8	33.4	33.7	33.8	25.3
Rhode Island	0.6	0.7	(Z)	(Z)	-	0.3	0.4	(Z)	(Z)
South Carolina	69.3	78.4	87.3	90.4	42.8	14.9	16.7	17.6	17.7
South Dakota	6.4	8.8	10.6	9.7	37.9	2.7	3.0	2.9	2.9
Tennessee	73.9	82.3	89.7	92.3	65.7	17.0	16.1	17.5	17.3
Texas	234.0	261.7	292.5	297.3	46.4	62.0	64.4	65.2	65.3
Utah	32.3	32.1	36.1	35.8	95.0	4.8	4.8	5.1	5.1
Vermont	5.0	4.8	4.7	5.3	-	1.1	1.1	0.8	0.8
Virginia	47.2	52.7	65.1	65.8	51.6	13.7	14.3	15.3	15.3
Washington	100.5	95.7	112.1	96.2	3.4	24.2	24.3	25.2	25.2
West Virginia	77.4	77.3	91.7	89.7	99.3	14.4	14.5	14.5	14.5
Wisconsin	45.6	51.0	54.7	55.7	73.8	10.6	11.5	11.9	12.1
Wyoming	39.4	39.7	43.0	44.6	97.2	5.8	6.0	6.0	6.0

- Represents zero. Z Represents less than 50 million kWh or 50,000 kW.

Source: U.S. Energy Information Administration, *Electric Power Annual*, *Electric Power Monthly*, August and December issues, and *Inventory of Power Plants in the United States*, annual. Also see <<http://www.eia.doe.gov/fuelelectric.html>> (accessed July 31, 2002).

No. 896. Nuclear Power Plants—Number, Capacity, and Generation: 1980 to 2001

Item	1980	1985	1990	1993	1994	1995	1996	1997	1998	1999	2000	2001
Operable generating units ¹	71	96	112	110	109	109	109	107	104	104	104	104
Net summer capability ^{1,2} (mil. kW)	51.8	79.4	99.6	99.1	99.1	99.5	100.8	99.7	97.1	97.4	97.4	98.1
Net generation (bil. kWh)	251.1	383.7	577.0	610.4	640.5	673.4	674.7	628.6	673.7	728.3	753.9	767.3
Percent of total electric utility generation	11.0	15.5	19.1	19.1	19.7	20.1	19.6	18.0	18.6	19.7	19.8	20.3
Capacity factor ³	56.3	58.0	66.0	70.5	73.8	77.4	76.2	71.1	78.2	85.3	88.1	89.3

¹ As of year-end. ² Net summer capability is the peak steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary and other power plant, as demonstrated by test at the time of summer peak demand. ³ Weighted average of monthly capacity factors. Monthly factors are derived by dividing actual monthly generation by the maximum possible generation for the month (hours in month times net maximum dependable capacity).

Source: U.S. Energy Information Administration, *Annual Energy Review*. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>> (released August 2001).

No. 897. Nuclear Power Plants—Number of Units, Net Generation, and Net Summer Capability by State: 1999

State	Net generation			Net summer capability		State	Net generation			Net summer capability	
	Number of units	Total (mil. kWh)	Percent of total ¹	Total (mil. kW)	Percent of total ¹		Number of units	Total (mil. kWh)	Percent of total ¹	Total (mil. kW)	Percent of total ¹
U.S.	104	725,036	22.8	97.07	15.2	MS	1	8,428	25.9	1.20	17.7
AL	5	30,892	27.1	4.95	23.1	MO	1	8,587	11.7	1.14	6.8
AZ	3	30,416	36.6	3.73	24.7	NE	2	10,091	33.7	1.25	21.4
AR	2	12,920	29.3	1.69	18.3	NH	1	8,676	62.4	1.16	50.7
CA	4	33,372	37.2	4.31	17.7	NJ	4	28,971	74.5	3.86	32.0
CT	2	12,675	61.6	2.01	68.9	NY	6	37,019	38.2	4.97	28.1
FL	5	31,526	18.9	3.87	10.6	NC	5	37,524	34.2	4.69	22.1
GA	4	31,478	28.6	3.95	16.9	OH	2	16,422	11.6	2.04	7.5
IL	11	81,356	54.4	10.53	62.0	PA	9	70,885	44.0	9.04	35.8
IA	1	3,640	9.8	0.52	6.2	SC	7	50,814	58.2	6.43	36.4
KS	1	9,157	21.8	1.16	11.6	TN	3	27,227	30.4	3.36	19.5
LA	2	13,112	20.3	2.01	12.3	TX	4	36,760	12.7	4.80	7.4
MD	2	13,312	26.9	1.68	15.3	VT	1	4,059	85.3	0.50	63.9
MA	1	1,931	31.3	0.67	30.0	VA	4	28,301	43.5	3.39	22.2
MI	4	14,591	16.6	3.92	17.5	WA	1	6,086	5.4	1.12	4.5
MN	3	13,316	30.2	1.63	18.1	WI	3	11,495	21.0	1.49	12.4

¹ For total capability and generation, see Table 895.

Source: U.S. Energy Information Administration, *Electric Power Annual* and *Electric Power Monthly*, December issues.

No. 898. Uranium Concentrate—Supply, Inventories, and Average Prices: 1980 to 2000

[Years ending Dec. 31. For additional data on uranium, see Section 18, Natural Resources, on mining]

Item	Unit	1980	1990	1994	1995	1996	1997	1998	1999	2000
Production	Mil. lb.	43.70	8.89	3.35	6.04	6.32	5.64	4.71	4.61	3.96
Exports	Mil. lb.	5.8	2.0	17.7	9.8	11.5	17.0	15.1	8.5	13.6
Imports	Mil. lb.	3.6	23.7	36.6	41.3	45.4	43.0	43.7	47.6	44.9
Utility purchases from domestic suppliers	Mil. lb.	(NA)	20.5	22.7	22.3	22.9	18.7	20.3	19.2	22.9
Loaded into U.S. nuclear reactors ¹	Mil. lb.	(NA)	(NA)	40.4	51.1	46.2	48.2	38.2	58.8	51.4
Inventories, total	Mil. lb.	(NA)	129.1	86.9	72.5	80.0	106.2	136.5	127.1	112.3
At domestic suppliers	Mil. lb.	(NA)	26.4	21.5	13.7	13.9	40.4	70.7	68.8	56.5
At electric utilities	Mil. lb.	(NA)	102.7	65.4	58.7	66.1	65.9	65.8	58.3	55.9
Average price per pound:										
Purchased imports	Dollars	(NA)	12.55	8.95	10.20	13.15	11.81	11.19	10.55	9.84
Domestic purchases	Dollars	(NA)	15.70	10.30	11.11	13.81	12.87	12.31	11.88	11.45

NA Not available. ¹ Does not include any fuel rods removed from reactors and later reloaded into the reactor.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual* and unpublished data.

No. 899. Nonutility Electric Power Producers—Summary by Type of Fuel: 1990 to 1999

[A nonutility power producer may be a corporation, person, agency, authority, or other legal entity or instrumentality that owns electric generating capacity and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers) without a designated franchised service area, and which do not file forms listed in the Code of Federal Regulations, Title 18, Part 141]

Type of fuel	Unit	1990	1992	1993	1994	1995	1996	1997	1998	1999
Installed capacity . . .	1,000 kW.	45,271	56,814	60,778	68,461	70,254	73,189	74,004	98,085	167,357
Coal ¹	1,000 kW.	6,937	8,503	9,772	10,372	10,877	11,370	11,027	13,712	48,501
Petroleum ²	1,000 kW.	1,038	1,730	2,043	2,262	2,116	2,251	2,924	2,629	3,701
Natural gas ³	1,000 kW.	17,430	21,542	23,463	26,925	27,906	30,166	31,092	37,325	49,353
Other gas ³	1,000 kW.	(⁴)	(⁴)	(⁴)	1,130	1,217	327	35	205	918
Petroleum/natural gas (combined)	1,000 kW.	6,468	8,478	8,505	9,820	10,479	10,912	10,029	23,105	40,508
Hydroelectric	1,000 kW.	1,968	2,684	2,741	3,364	3,399	3,419	3,770	4,136	5,996
Geothermal	1,000 kW.	1,086	1,254	1,318	1,335	1,295	1,346	1,303	1,449	2,698
Solar	1,000 kW.	360	360	360	354	354	354	354	385	382
Wind ⁵	1,000 kW.	1,405	1,822	1,813	1,737	1,723	1,670	1,566	1,689	2,222
Wood ⁵	1,000 kW.	6,049	6,805	7,046	7,416	6,885	7,263	7,282	6,887	6,647
Waste ⁶	1,000 kW.	2,323	3,006	3,131	3,150	3,430	3,463	3,394	3,488	4,316
Gross generation . . .	Mil. kWh	220,058	296,001	325,226	354,925	375,901	382,423	384,496	421,364	569,336
Coal ¹	Mil. kWh	32,131	47,363	53,367	59,035	60,234	61,375	59,211	70,369	129,502
Petroleum ²	Mil. kWh	7,330	10,963	13,364	15,069	15,049	14,959	15,930	17,533	21,947
Natural gas ³	Mil. kWh	116,969	158,798	174,282	179,735	196,633	198,555	207,527	238,747	295,725
Other gases ³	Mil. kWh	(⁴)	(⁴)	(⁴)	12,480	13,984	14,750	11,687	8,866	8,707
Hydroelectric	Mil. kWh	8,153	9,446	11,511	13,227	14,774	16,555	17,902	14,633	21,748
Geothermal	Mil. kWh	7,235	8,578	9,749	10,122	9,912	10,198	9,382	9,882	15,581
Solar	Mil. kWh	663	746	897	824	824	903	893	887	870
Wind ⁵	Mil. kWh	2,251	2,916	3,052	3,482	3,185	3,400	3,248	3,015	4,510
Wood ⁵	Mil. kWh	30,812	36,255	37,421	38,595	37,283	37,525	34,898	32,596	34,999
Waste ⁶	Mil. kWh	11,688	17,352	18,325	18,797	20,231	20,412	20,246	21,086	22,312
Supply and disposition:										
Gross generation	Mil. kWh	220,058	296,001	325,226	354,925	375,901	382,423	384,496	421,364	569,336
Receipts	Mil. kWh	60,926	83,421	85,323	94,166	89,919	103,219	88,506	90,675	89,688
Sales to utilities	Mil. kWh	106,224	164,374	187,466	204,688	217,906	224,646	223,532	249,483	369,539
Sales to other end users	Mil. kWh	19,824	10,786	15,569	17,626	15,548	14,284	18,147	25,777	42,983
Facility use	Mil. kWh	154,936	204,261	207,514	226,777	232,367	246,713	231,138	236,770	250,227

¹ Includes coal, anthracite, culm and coal waste. ² Includes petroleum, petroleum coke, diesel, kerosene, and petroleum sludge and tar. ³ Includes butane, ethane, propane, and other gases. ⁴ Included in "Natural gas." ⁵ Includes wood, wood waste, peat, wood liquors, railroad ties, pitch and wood sludge. ⁶ Includes municipal solid waste, agricultural waste, straw, tires, landfill gases and other waste.

Source: Energy Information Administration, *Electric Power Annual*, Vol. II; and *Inventory of Nonutility Electric Power Plants in the United States*, annual.

No. 900. Electric Utilities—Generation, Sales, Revenue, and Customers: 1980 to 2000

[Sales and revenue are to and from ultimate customers]

Class	Unit	1980	1985	1990	1995	1996	1997	1998	1999	2000
Generation ^{1 2}	Bil. kWh.	2,286	2,470	3,025	3,358	3,447	3,494	3,618	3,705	3,800
Sales³	Bil. kWh.	2,126	2,306	2,684	3,013	3,098	3,139	3,240	3,236	3,310
Residential or domestic	Bil. kWh.	734	793	916	1,043	1,082	1,079	1,128	1,141	1,183
Percent of total	Percent	34.5	34.4	34.1	35	35.0	34.4	34.8	35.3	35.7
Commercial ⁴	Bil. kWh.	524	606	739	863	887	929	969	971	1,001
Industrial ⁵	Bil. kWh.	794	820	932	1,013	1,030	1,028	1,040	1,018	1,018
Revenue³	Bil. dol.	95.5	149.2	176.5	207.7	212.5	215.1	218.4	215.5	224.2
Residential or domestic	Bil. dol.	37.6	58.6	71.7	87.6	90.5	90.9	93.2	93.1	97.1
Percent of total	Percent	39.4	39.3	40.6	42.2	42.6	42.2	42.7	43.2	43.3
Commercial ⁴	Bil. dol.	27.4	44.1	54.2	66.4	67.8	70.5	71.8	70.5	73.7
Industrial ⁵	Bil. dol.	27.3	41.4	44.9	47.2	47.4	46.7	46.6	45.1	46.5
Ultimate customers, Dec. 31³	Million	92.7	101.6	110.1	118.3	120.0	122.2	124.0	125.2	126.0
Residential or domestic	Million	82.2	89.8	97.0	103.9	105.3	107.1	108.7	109.8	110.5
Commercial ⁴	Million	9.7	10.9	12.1	13.0	13.2	13.5	13.8	14.0	14.1
Industrial ⁵	Million	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.5
Avg. kWh used per customer	1,000	23.2	22.9	24.4	(NA)	(NA)	25.7	26.1	25.8	26.3
Residential	1,000	9.0	8.9	9.4	(NA)	(NA)	10.1	10.4	10.4	10.7
Commercial ⁴	1,000	54.5	56.1	60.9	(NA)	(NA)	68.7	70.0	69.5	71.2
Avg. annual bill per customer	Dollar	1,040	1,482	1,603	(NA)	(NA)	1,761	1,760	1,720.4	1,779.3
Residential	Dollar	462	658	739	(NA)	(NA)	849	857	848.2	878.6
Commercial ⁴	Dollar	2,848	4,080	4,466	(NA)	(NA)	5,209	5,189	5,048.2	5,242.7
Avg. revenue per kWh sold	Cents	4.49	6.47	6.57	6.89	6.86	6.85	6.74	6.7	6.8
Residential	Cents	5.12	7.39	7.83	8.40	8.36	8.43	8.26	8.2	8.2
Commercial ⁴	Cents	5.22	7.27	7.33	7.69	7.64	7.58	7.41	7.3	7.4
Industrial ⁵	Cents	3.44	5.04	4.81	4.66	4.60	4.54	4.48	4.4	4.6

NA Not available. ¹ Source: U.S. Energy Information Administration, *Monthly Energy Review*, monthly. ² Generation includes batteries, chemicals, hydrogen, pitch, sulfur, and purchased steam. ³ Includes other types not shown separately. ⁴ Small light and power. ⁵ Large light and power.

Source: Except as noted, Edison Electric Institute, Washington, DC, *Statistical Yearbook of the Electric Utility Industry*, annual.

No. 901. Major Investor-Owned Electric Utilities—Balance Sheet and Income Account of Privately Owned Companies: 1994 to 1999

[In millions of dollars (196,282 represents \$196,282,000,000). As of Dec. 31. Covers approximately 180 investor-owned electric utilities that during each of the last 3 years met any one or more of the following conditions—1 mil. megawatt-hours of total sales; 100 megawatt-hours of sales for resale, 500 megawatt-hours of gross interchange out, and 500 megawatt-hours of wheeling for other]

Item	1994	1995	1996	1997	1998	1999
COMPOSITE INCOME ACCOUNTS						
Operating revenue	196,282	199,967	207,459	215,083	218,175	214,160
Electric	179,307	183,655	188,901	195,898	201,970	197,578
Gas	16,222	15,580	17,869	18,663	15,735	16,033
Other utility	753	731	689	522	470	550
Operating expenses ¹	164,207	165,321	173,920	182,796	186,498	182,258
Electric	148,663	150,599	156,938	165,443	171,689	167,266
Operation	93,108	91,881	97,207	104,337	110,759	108,461
Maintenance	12,022	11,767	12,050	12,368	12,486	12,276
Depreciation	18,679	19,885	21,194	23,072	24,122	23,968
Taxes other than income taxes	13,275	13,519	13,569	13,612	12,867	12,336
Income taxes	9,626	11,480	11,195	11,862	13,037	14,843
Deferred income tax	1,832	1,474	1,617	25	-476	-2,216
Investment tax credit (net)	-585	-550	-577	-448	-651	-1,695
Gas	14,878	14,073	16,258	16,925	14,396	14,493
Other utility	667	649	725	427	413	499
Operating income	32,074	34,646	33,539	32,286	31,677	31,902
Electric	30,645	33,057	31,963	30,454	30,281	30,311
Gas	1,344	1,507	1,612	1,737	1,339	1,540
Other utility	86	82	-36	95	57	51
Total income before interest charges	33,884	36,457	35,153	34,100	32,788	33,567
Less: <i>Net interest charges</i>	14,162	14,421	13,990	14,086	14,057	13,691
Interest expense	13,915	14,170	13,646	13,768	13,670	13,376
Less allow. for borrowed funds used during construction	421	435	326	331	328	331
Other charges, net	667	687	671	649	715	646
Net income before extraordinary charges	19,722	22,036	21,162	20,014	18,732	19,876
Less <i>extraordinary items after taxes</i>	-165	-25	-66	3,151	1,344	2,793
Equals: Net income	19,888	22,061	21,228	16,863	17,388	17,083
Dividends declared - preferred stock	1,582	1,519	1,248	1,005	750	687
Earnings available for common stocks	18,306	20,542	19,980	15,857	16,638	16,396
Dividends declared - common stock	15,876	16,250	16,810	17,756	17,414	18,687
Additions total earnings	2,063	4,282	2,193	-1,960	-199	-2,785
COMPOSITE BALANCE SHEET						
Total assets and other debits	574,512	578,934	581,991	586,241	598,856	585,827
Utility plant, net	397,812	397,383	396,438	385,258	362,388	344,112
Electric utility plant, net	366,936	366,116	363,854	351,427	327,646	310,317
Electric utility plant	535,928	553,858	569,969	579,042	575,651	567,825
Construction work in progress	17,148	13,523	11,396	11,164	11,886	12,306
Less accumulated depreciation	186,140	201,265	217,510	238,779	259,892	269,813
Nuclear fuel, net	5,657	5,286	5,444	5,219	4,731	4,265
Other utility plant, net	25,219	25,981	27,140	28,613	30,011	29,529
Other property and investments	23,479	27,988	33,120	43,248	48,853	54,546
Current and accrued assets	41,263	44,140	43,515	47,639	54,901	57,324
Deferred debits	111,957	109,423	108,918	110,096	132,714	129,845
CAPITALIZATION AND LIABILITIES						
Liabilities and other credits	574,512	578,934	581,991	586,241	598,856	585,827
Capitalization	364,725	365,775	365,783	369,079	367,052	345,786
Common stock equity (end of year)	164,483	170,497	174,325	174,467	172,239	165,341
Preferred stock	24,860	21,569	18,830	16,080	14,447	12,061
Long-term debt	175,382	173,708	172,627	178,532	180,366	168,384
Current liabilities and deferred credits	209,787	213,159	216,208	217,162	231,803	240,041

¹ Includes items not shown separately.

Source: U.S. Energy Information Administration, *Electric Power Annual*.

No. 902. Water Power—Developed and Undeveloped Capacity by Division: 1980 to 2001

[In millions of kilowatts. (64.4 represents 64,400,000). As of Dec. 31. Excludes all capacity of reversible equipment at pumped storage projects. Also excludes capacity precluded from development due to wild and scenic river legislation. For composition of divisions, see map, inside front cover]

Division	Developed installed capacity						Estimated undeveloped capacity					
	1980	1990	1995	1999	2000	2001	1980	1990	1995	1999	2000	2001
United States	64.4	73.0	74.2	73.8	73.8	73.8	129.9	73.9	71.0	64.1	64.1	64.1
New England	1.5	1.9	1.9	2.0	2.0	2.0	4.7	4.4	4.4	3.9	3.9	3.9
Middle Atlantic	4.3	4.9	4.9	5.6	5.6	5.6	5.1	5.1	4.9	3.6	3.6	3.6
East North Central	0.9	1.1	1.2	1.2	1.2	1.2	2.0	1.7	1.7	1.5	1.5	1.5
West North Central	2.8	3.1	3.1	3.0	3.0	3.0	3.4	3.1	3.1	2.8	2.8	2.8
South Atlantic	5.9	6.7	6.7	6.8	6.8	6.8	9.6	7.0	7.2	6.8	6.8	6.8
East South Central	5.6	5.9	5.9	5.9	5.9	5.9	3.3	2.4	2.3	2.0	2.0	2.0
West South Central	2.3	2.7	2.7	2.8	2.8	2.8	4.7	4.6	4.6	4.0	4.0	4.0
Mountain	7.4	9.2	9.5	10.0	10.0	10.0	34.2	19.4	18.8	18.0	18.0	18.0
Pacific	33.7	37.5	38.3	36.5	36.5	36.5	62.9	26.2	24.0	21.5	21.5	21.5

Source: U.S. Federal Energy Regulatory Commission (formerly U.S. Federal Power Commission), *Hydroelectric Power Resources of the United States, Developed and Undeveloped*, January 1, 1988; and unpublished data from the Hydroelectric Power Resources Assessment Database Developed and Undeveloped, March 30, 2002.

No. 903. Solar Collector Shipments by Type, End Use, and Market Sector: 1980 to 2000

[Shipments in thousands of square feet (19,398 represents 19,398,000). Solar collector is a device for intercepting sunlight, converting the light to heat, and carrying the heat to where it will be either used or stored. 1985 data are not available]

Year	Number of manufacturers	Total shipments ¹	Collector type		End use			Market sector		
			Low temperature	Medium temperature, special, other ²	Pool heating	Hot water	Space heating	Residential	Commercial	Industrial
1980	233	19,398	12,233	7,165	12,029	4,790	1,688	16,077	2,417	488
1981	203	20,133	8,677	11,456	9,781	7,204	2,017	15,773	2,561	1,518
1982	265	18,621	7,476	11,145	7,035	7,444	2,367	13,729	3,789	560
1983	203	16,828	4,853	11,975	4,839	9,323	2,082	11,780	3,039	1,665
1984	225	17,191	4,479	11,939	4,427	8,930	2,370	13,980	2,091	289
1986 ³	98	9,360	3,751	1,111	3,494	1,181	127	4,131	703	13
1987 ³	59	7,269	3,157	957	3,111	964	23	3,775	305	11
1988 ³	44	8,174	3,326	732	3,304	726	7	3,796	255	7
1989 ³	44	11,482	4,283	1,989	4,688	1,374	205	5,804	294	42
1990	51	11,409	3,645	2,527	5,016	1,091	2	5,835	294	22
1991	48	6,574	5,585	989	5,535	989	24	6,322	225	13
1992	45	7,086	6,187	897	6,210	801	35	6,832	204	27
1993	41	6,968	6,025	931	6,040	880	15	6,694	215	31
1994	41	7,627	6,823	803	6,813	790	19	7,026	583	16
1995	36	7,666	6,813	840	6,763	755	132	6,966	604	82
1996	28	7,616	6,821	785	6,787	765	57	6,873	682	54
1997	29	8,138	7,524	606	7,528	595	10	7,360	768	7
1998	28	7,756	7,292	443	7,201	463	67	7,165	517	62
1999	29	8,583	8,152	427	8,141	373	42	7,774	785	18
2000	(NA)	8,354	7,948	(NA)	7,863	367	99	7,473	810	57

¹ Includes high temperature collectors, end uses such as process heating, and utility and other market sectors not shown separately. ² Includes imputation of shipment data to account for nonrespondents. ³ Declines between 1986 and 1989 are primarily due to the expiration of the Federal energy tax credit and industry consolidation.

Source: U.S. Energy Information Administration, 1974-1993, *Solar Collector Manufacturing Activity*, annual reports; thereafter, *Renewable Energy Annual*. See also <<http://www.eia.doe.gov/creaf/solar/renewables/page/solar/table16.html>> (accessed April 2002).

No. 904. Privately Owned Gas Utility Industry—Balance Sheet and Income Account: 1980 to 2000

[In millions of dollars (75,851 represents \$75,851,000,000). The gas utility industry consists of pipeline and distribution companies. Excludes operations of companies distributing gas in bottles or tanks]

Item	1980	1990	1994	1995	1996	1997	1998	1999	2000
COMPOSITE BALANCE SHEET									
Assets, total	75,851	121,686	137,911	141,965	121,328	134,715	119,715	155,413	167,176
Total utility plant	67,071	112,863	139,372	143,636	135,179	140,268	135,092	166,134	163,641
Depreciation and amortization	26,162	49,483	61,140	62,723	58,815	62,554	61,226	73,823	69,981
Utility plant (net)	40,909	63,380	78,232	80,912	76,364	77,714	73,866	92,311	93,661
Investment and fund accounts	15,530	23,872	22,658	26,489	13,207	22,812	12,337	17,344	10,942
Current and accrued assets	17,243	23,268	20,728	18,564	17,393	19,084	17,348	22,443	36,007
Deferred debits	2,169	9,576	14,234	13,923	11,983	12,844	13,721	20,922	24,494
Liabilities, total	75,851	121,686	137,911	141,965	121,328	134,775	119,715	155,413	167,176
Capitalization, total	51,382	74,958	85,728	90,581	77,440	78,887	71,718	95,244	96,929
Capital stock	29,315	43,810	50,394	54,402	43,555	42,530	37,977	859	767
Long-term debts	22,067	31,148	35,296	35,548	33,644	35,971	33,386	46,906	48,695
Current and accrued liabilities	18,119	29,550	25,438	28,272	22,098	33,507	26,953	32,683	42,686
Deferred income taxes ²	4,149	11,360	13,787	14,393	13,326	13,636	13,239	17,120	17,309
Other liabilities and credits	2,201	5,818	12,955	8,715	8,464	8,745	7,806	10,365	10,252
COMPOSITE INCOME ACCOUNT									
Operating revenues, total	85,918	66,027	63,446	58,390	63,600	62,617	57,117	59,142	72,712
Minus: Operating expenses ³	81,789	60,137	56,789	50,760	56,695	59,375	50,896	38,752	53,398
Operation and maintenance	74,508	51,627	43,879	37,966	43,742	46,070	41,026	41,415	54,910
Federal, state, and local taxes	4,847	4,957	6,613	6,182	6,362	7,182	5,429	5,605	6,213
Equals: Operating income	4,129	5,890	6,657	7,630	6,905	3,242	6,220	20,390	19,314
Utility operating income	4,471	6,077	6,851	7,848	7,013	3,337	6,361	16,614	15,496
Income before interest charges	6,929	8,081	8,200	9,484	8,030	4,193	7,779	17,531	15,386
Net income	4,194	4,410	5,011	5,139	4,797	4,48	4,379	10,420	9,035
Dividends	2,564	3,191	3,928	4,037	4,138	6,258	2,263	5,595	5,448

¹ Includes capital stock discount and expense and reacquired securities. ² Includes reserves for deferred income taxes. ³ Includes expenses not shown separately.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual (copyright).

No. 905. Gas Utility Industry—Summary: 1980 to 2000

[Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately and municipally owned gas utilities in United States, except those with annual revenues less than \$25,000]

Item	Unit	1980	1985	1990	1995	1997	1998	1999	2000
End users ¹	1,000	47,223	49,971	54,261	58,728	59,790	62,421	64,071	64,115
Residential	1,000	43,489	45,929	49,802	53,955	54,993	57,465	58,939	59,061
Commercial	1,000	3,498	3,816	4,246	4,530	4,589	4,755	4,920	4,813
Industrial and other	1,000	187	179	166	181	170	164	174	161
Sales ²	Tril. Btu ³	15,413	12,616	9,842	9,221	8,880	8,630	8,889	9,052
Residential	Tril. Btu	4,826	4,513	4,468	4,803	5,013	4,828	4,865	4,941
Percent of total	Percent	31.3	35.8	45.4	52.0	56.3	56.3	54.7	54.6
Commercial	Tril. Btu	2,453	2,338	2,192	2,281	2,234	2,157	2,087	2,116
Industrial	Tril. Btu	7,957	5,635	3,010	1,919	1,511	1,528	1,868	1,904
Other	Tril. Btu	177	130	171	218	123	117	69	91
Revenues ²	Mil. dol.	48,303	63,293	45,153	46,436	51,531	47,930	48,423	59,667
Residential	Mil. dol.	17,432	26,864	25,000	28,742	33,175	31,333	31,472	37,446
Percent of total	Percent	36.1	42.4	55.4	61.9	64.2	65.4	65.0	62.8
Commercial	Mil. dol.	8,183	12,722	10,604	11,573	12,632	11,523	11,133	13,648
Industrial	Mil. dol.	22,215	23,086	8,996	5,571	5,236	4,684	5,547	8,069
Other	Mil. dol.	473	621	553	549	488	391	272	505
Prices per mil. Btu ³	Dollars	3.13	5.02	4.59	5.05	5.80	5.55	5.45	6.59
Residential	Dollars	3.61	5.95	5.60	6.00	6.62	6.49	6.47	7.58
Commercial	Dollars	3.34	5.44	4.84	5.07	5.65	5.34	5.34	6.45
Industrial	Dollars	2.79	4.10	2.99	2.98	3.53	3.18	3.19	4.35
Gas mains mileage	1,000	1,052	1,119	1,207	1,261	1,251	1,295	1,389	1,400
Field and gathering	1,000	84	94	90	60	43	40	40	40
Transmission	1,000	266	271	280	264	251	256	254	251
Distribution	1,000	702	754	837	937	957	999	1,095	1,110
Construction expenditures ⁴	Mil. dol.	5,350	5,671	7,899	10,760	6,830	10,978	8,320	8,697
Transmission	Mil. dol.	1,583	1,562	2,886	3,380	1,319	3,656	1,785	1,604
Distribution	Mil. dol.	1,869	2,577	3,714	5,394	4,188	5,035	4,180	5,484
Production and storage	Mil. dol.	1,150	790	309	367	276	598	161	139
General	Mil. dol.	352	567	770	1,441	891	1,389	1,974	1,284
Underground Storage	Mil. dol.	396	175	219	177	156	299	220	186

¹ Annual average. ² Excludes sales for resale. ³ For definition of Btu, see text, this section. ⁴ Includes general.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual (copyright).

No. 906. Gas Utility Industry—Customers, Sales, and Revenues by State: 2000

[See headnote, Table 905. For definition of Btu, see text, this section]

State	Customers ¹ (1,000)		Sales ³ (tril. Btu)		Revenues ³ (mil. dol.)		State	Customers ¹ (1,000)		Sales ³ (tril. Btu)		Revenues ³ (mil. dol.)	
	Total ²	Residential	Total ²	Residential	Total ²	Residential		Total ²	Residential	Total ²	Residential	Total ²	Residential
U.S.	64,115	59,061	9,052	4,941	59,667	37,446	MO	1,485	1,342	176	114	1,227	857
AL	877	805	113	47	766	400	MT	257	225	31	21	183	121
AK	104	91	24	16	80	57	NE	521	464	74	42	451	278
AZ	898	843	84	35	617	335	NV	552	520	47	31	287	198
AR	633	560	88	44	607	356	NH	121	101	19	9	166	79
CA	9,801	9,367	717	526	5,560	4,213	NJ	2,625	2,426	601	232	3,321	1,821
CO	1,525	1,385	195	122	1,104	753	NM	525	479	60	35	343	221
CT	508	460	96	42	803	473	NY	4,467	4,127	650	377	5,502	3,798
DE	122	112	23	10	165	79	NC	978	860	174	64	1,222	582
DC	131	120	19	10	165	89	ND	121	106	24	12	139	72
FL	752	694	75	19	601	236	OH	3,078	2,847	416	308	2,978	2,266
GA	339	310	66	20	404	166	OK	1,000	913	109	70	764	517
HI	68	62	6	1	96	24	OR	663	586	93	45	622	349
ID	320	283	39	23	220	138	PA	2,501	2,296	362	237	2,838	1,994
IL	3,821	3,559	545	421	3,560	2,801	RI	123	112	16	9	147	90
IN	1,803	1,647	279	167	1,775	1,159	SC	528	474	95	28	641	250
IA	906	812	120	74	868	576	SD	161	142	23	13	153	93
KS	1,708	1,553	199	133	1,350	974	TN	1,065	949	169	68	1,073	495
KY	1,000	898	142	78	936	558	TX	3,987	3,672	895	200	4,415	1,515
LA	838	790	187	55	931	373	UT	1,360	1,264	181	117	979	687
ME	48	34	11	2	72	18	VT	59	30	10	3	58	25
MD	868	808	85	60	733	549	VA	942	857	129	67	1,041	628
MA	1,572	1,446	202	130	1,825	1,260	WA	1,012	913	172	84	985	554
MI	3,327	3,084	523	379	2,593	1,922	WV	407	365	69	34	407	245
MN	1,373	1,250	276	134	1,698	939	WI	1,604	1,457	245	135	1,653	1,010
MS	473	422	75	26	415	176	WY	159	141	25	14	129	79

¹ Averages for the year. ² Includes other service, not shown separately. ³ Excludes sales for resale.

Source: American Gas Association, Arlington, VA, *Gas Facts*, annual (copyright).

No. 907. Public Drinking Water Systems by Size of Community Served and Source of Water: 2001

[As of September. Covers systems that provide water for human consumption through pipes and other constructed conveyances to a least 15 service connection or serve an average of at least 25 persons for at least 60 days a year. Based on reported data in the Safe Drinking Water Information System maintained by the Environmental Protection Agency]

Type of system	Size of community served						Water source	
	Total	500 or fewer persons	501 to 3,300 persons	3,301 to 10,000 persons	10,001 to 100,000	100,000 persons or more	Ground water	Surface water
Total systems	165,471	137,124	19,779	4,712	3,500	356	150,739	14,732
COMMUNITY WATER SYSTEMS ¹								
Number of systems	53,783	31,262	14,241	4,498	3,432	350	42,212	11,571
Percent of systems	100	58	26	8	6	1	78	22
Population served (1,000)	264,145	5,095	20,097	26,092	96,516	116,345	85,744	178,402
Percent of systems	100	2	8	10	37	44	32	68
NONTRANSIENT NONCOMMUNITY WATER SYSTEM ²								
Number of systems	20,095	17,133	2,847	93	19	3	19,205	890
Percent of systems	100	85	14	-	-	-	96	4
Population served (1,000)	6,586	2,386	2,815	459	546	380	5,717	869
Percent of systems	100	36	43	7	8	6	87	13
TRANSIENT NONCOMMUNITY WATER SYSTEM ³								
Number of systems	91,593	88,729	2,691	121	49	3	89,322	2,271
Percent of systems	100	97	3	-	-	-	98	2
Population served (1,000)	12,819	7,472	2,702	667	1,242	735	11,882	937
Percent of systems	100	58	21	5	10	6	93	7

- Represents zero. ¹ A public water system that supplies water to the same population year-round. ² A public water system that regularly supplies water to at least 25 of the same people at least 6 months per year, but not year-round. Some examples are schools, factories, and office buildings which have their own water systems. ³ A public water system that provides water in a place such as a gas station or campground where people do not remain for long periods of time.

Source: U.S. Environmental Protection Agency, Internet site <<http://www.epa.gov/safewater/data/getdata.html>> (accessed May 2002).

No. 908. Water and Sewage Treatment Facilities: 1997

State	Water supply (NAICS 2213101)		Sewage treatment facilities (NAICS 22132)		State	Water supply (NAICS 2213101)		Sewage treatment facilities (NAICS 22132)	
	Number of establishments	Paid employees	Number of establishments	Paid employees		Number of establishments	Paid employees	Number of establishments	Paid employees
U.S. . . .	3,721	26,597	696	5,600	MO	57	(⁴)	15	(⁵)
AL	96	(¹)	13	(²)	MT	35	113	6	(³)
AK	6	(³)	(NA)	(NA)	NE	(NA)	(NA)	(NA)	(NA)
AZ	129	1,131	8	40	NV	23	(⁵)	(NA)	(NA)
AR	140	(⁴)	9	(⁵)	NH	10	(²)	(NA)	(NA)
CA	374	2,848	27	116	NJ	49	(⁶)	24	(⁴)
CO	71	314	14	51	NM	90	323	(NA)	(NA)
CT	32	(⁶)	9	(⁵)	NY	41	(⁴)	28	(²)
DE	9	(¹)	(NA)	(NA)	NC	81	577	18	(⁵)
DC	(NA)	(NA)	(NA)	(NA)	ND	24	(⁵)	(NA)	(NA)
FL	129	1,393	88	(⁴)	OH	60	686	19	(²)
GA	34	130	10	(⁵)	OK	105	(¹)	9	(²)
HI	9	24	13	(²)	OR	63	(²)	7	(⁵)
ID	35	(²)	6	20	PA	125	2,568	59	(¹)
IL	82	(⁴)	27	(²)	RI	(NA)	(NA)	(NA)	(NA)
IN	114	(⁶)	30	(²)	SC	48	(¹)	12	(⁵)
IA	25	(²)	7	(⁵)	SD	29	(²)	(NA)	(NA)
KS	38	(²)	(NA)	(NA)	TN	30	(¹)	11	(²)
KY	42	(¹)	13	116	TX	601	2,514	38	(⁴)
LA	192	(⁴)	21	(²)	UT	23	71	(NA)	(NA)
ME	22	(²)	(NA)	(NA)	VT	7	(⁵)	(NA)	(NA)
MD	8	(²)	9	107	VA	48	(¹)	12	(⁵)
MA	18	(²)	21	(¹)	WA	148	(¹)	8	(⁵)
MI	12	66	10	24	WV	40	523	20	94
MN	6	(⁵)	13	(⁵)	WI	(NA)	(NA)	13	47
MS	332	1,001	14	(⁵)	WY	16	(⁵)	(NA)	(NA)

NA Not available. ¹ 250-499 employees. ² 100-249. ³ 1-19. ⁴ 500-999. ⁵ 20-99. ⁶ 1000-2499.

Source: U.S. Census Bureau, 1997 Economic Census. See also <<http://www.census.gov/epcd/www/97EC22.HTM>> (accessed May 2002).