

Table 9.6 – Production, Operation, and Maintenance Expenses for Major U.S. Investor-Owned and Publicly Owned Utilities

(Million of Nominal Dollars)

	Investor-Owned Utilities						Publicly Owned Utilities ^{1,3}				
	1990	1995	2000	2002	2003	2004	1990	1995	2000	2002	2003
Production Expenses											
Cost of Fuel	32,635	29,122	32,555	24,132	26,476	28,678	5,276	5,664	7,702	9,348	10,378
Purchased Power	20,341	29,981	61,969	58,828	62,173	67,354	10,542	11,988	16,481	24,446	26,078
Other Production Expenses	9,526	9,880	12,828	7,688	7,532	8,256	155	212	225	1,647	1,285
Total Production Expenses ²	62,502	68,983	107,352	90,649	96,181	104,288	15,973	17,863	24,398	36,188	38,526
Operation and Maintenance Expenses											
Transmission Expenses	1,130	1,425	2,699	3,494	3,585	4,519	604	663	845	951	977
Distribution Expenses	2,444	2,561	3,115	3,113	3,185	3,301	950	630	854	1,000	1,044
Customer Accounts Expenses	3,247	3,613	4,246	4,165	4,180	4,087	375	448	662	700	754
Customer Service and Information Expenses	1,181	1,922	1,839	1,821	1,893	2,012	75	120	233	354	311
Sales Expenses	212	348	403	261	234	238	29	30	82	84	95
Administrative and General Expenses	10,371	13,028	13,009	12,872	13,466	13,519	1,619	2,127	2,097	2,594	2,742
Total Electric Operation and Maintenance Expenses	18,585	22,897	25,311	25,726	26,543	27,676	3,653	4,018	4,772	5,683	5,923

Source: EIA, *Electric Power Annual 2004*, DOE/EIA-0348(2004) (Washington, D.C., November 2005), Tables 8.1, 8.3, and 8.4; and EIA, *Electric Power Annual 2001*, DOE/EIA-0348(2001) (Washington, D.C., December 2002), Table 8.1; EIA, *Financial Statistics of Major US Publicly Owned Electric Utilities 1994*, DOE/EIA-0437(94)/2 (Washington, D.C., December 1995), Table 8 and Table 17; EIA, *Financial Statistics of Major US Publicly Owned Electric Utilities 1999*, DOE/EIA-0437(99)/2 (Washington, D.C., November 2000), Table 10 and Table 21; EIA, *Financial Statistics of Major US Publicly Owned Electric Utilities 2000*, DOE/EIA-0437(00)/2 (Washington, D.C., November 2001), Table 10 and Table 21.; EIA, Public Electric Utility Database (Form EIA-412) 2002 and 2003.

Notes:

¹ Publicly Owned Utilities include generator and nongenerator electric utilities.

² Totals may not equal sum of components, because of independent rounding.

³ Collection of Form EIA-412 has been suspended, data for 2004 not available.

Table 9.6a – Operation and Maintenance Expenses for Major U.S. Investor-Owned Electric Utilities

(Million of Nominal Dollars, unless otherwise indicated)

	<u>1990</u>	<u>1995</u>	<u>2000</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
Utility Operating Expenses	142,471	165,321	210,324	188,745	197,459	207,161
Electric Utility	127,901	150,599	191,329	171,291	175,473	182,337
Operation	81,086	91,881	132,662	116,374	122,723	131,962
Production	62,501	68,983	107,352	90,649	96,181	104,287
Cost of Fuel	32,635	29,122	32,555	24,132	26,476	28,678
Purchased Power	20,341	29,981	61,969	58,828	62,173	67,354
Other	9,526	9,880	12,828	7,688	7,532	8,256
Transmission	1,130	1,425	2,699	3,494	3,585	4,519
Distribution	2,444	2,561	3,115	3,113	3,185	3,301
Customer Accounts	3,247	3,613	4,246	4,165	4,180	4,087
Customer Service	1,181	1,922	1,839	1,821	1,893	2,012
Sales	212	348	403	261	234	238
Administrative and General	10,371	13,028	13,009	12,872	13,466	13,519
Maintenance	11,779	11,767	12,185	10,843	11,141	11,774
Depreciation	14,889	19,885	22,761	17,319	16,962	16,373
Taxes and Other	20,146	27,065	23,721	26,755	24,648	22,228
Other Utility	14,571	14,722	18,995	17,454	21,986	24,823
Operation (Mills per Kilowatthour)¹						
Nuclear	10.04	9.43	8.41	8.54	8.86	8.3
Fossil Steam	2.21	2.38	2.31	2.54	2.50	2.68
Hydroelectric and Pumped Storage	3.35	3.69	4.74	5.07	4.50	5.05
Gas Turbine and Small Scale ²	8.76	3.57	4.57	2.72	2.76	2.73
Maintenance (Mills per Kilowatthour)¹						
Nuclear	5.68	5.21	4.93	5.04	5.23	5.38
Fossil Steam	2.97	2.65	2.45	2.68	2.73	2.96
Hydroelectric and Pumped Storage	2.58	2.19	2.99	3.58	3.01	3.64
Gas Turbine and Small Scale ²	12.23	4.28	3.50	2.38	2.26	2.16

Source: EIA, *Electric Power Annual 2004*, DOE/EIA-0348(2004) (Washington, D.C., November 2005), Tables 8.1 and 8.2; and EIA, *Electric Power Annual 2001*, Tables 8.1 and 8.2.

Notes:

¹ Operation and maintenance expenses are averages, weighed by net generation.

² Includes gas turbine, internal combustion, photovoltaic, and wind plants.

Table 9.6b – Operation and Maintenance Expenses for Major U.S. Publicly Owned Generator and Nongenerator Electric Utilities

(Million of Nominal Dollars, except employees)

	<u>1990</u>	<u>1995</u>	<u>2000</u>	<u>2002</u>	<u>2003</u>
Production Expenses					
Steam Power Generation	3,742	3,895	5,420	6,558	7,539
Nuclear Power Generation	1,133	1,277	1,347	1,646	1,739
Hydraulic Power Generation	205	261	332	746	785
Other Power Generation	196	231	603	1,144	1,100
Purchased Power	10,542	11,988	16,481	24,446	26,078
Other Production Expenses	155	212	225	1,647	1,285
Total Production Expenses ¹	15,973	17,863	24,398	36,188	38,526
Operation and Maintenance Expenses					
Transmission Expenses	604	663	845	951	977
Distribution Expenses	950	630	854	1,000	1,044
Customer Accounts Expenses	375	448	662	700	754
Customer Service and Information Expenses	75	120	233	354	311
Sales Expenses	29	30	82	84	95
Administrative and General Expenses	1,619	2,127	2,097	2,594	2,742
Total Electric Operation and Maintenance Expenses	3,653	4,018	4,772	5,683	5,923
Total Production and Operation and Maintenance Expenses	19,626	22,651	30,100	44,813	47,165
Fuel Expenses in Operation					
Steam Power Generation	2,395	2,163	4,150	4,818	5,624
Nuclear Power Generation	242	222	316	433	398
Other Power Generation	113	101	373	754	771
Total Electric Department Employees ²	N/A	73,172	71,353	93,520	92,752

Source: EIA, *Financial Statistics of Major US Publicly Owned Electric Utilities 1994*, DOE/EIA-0437(94)/2 (Washington, D.C., December 1995), Table 8 and Table 17; EIA, *Financial Statistics of Major U.S. Publicly Owned Electric Utilities 1999*, DOE/EIA-0437(99)/2 (Washington, D.C., November 2000), Table 10 and Table 21; EIA, *Financial Statistics of Major U.S. Publicly Owned Electric Utilities 2000*, DOE/EIA-0437(00)/2 (Washington, D.C., November 2001), Table 10 and Table 21; EIA, Public Electric Utility Database (Form EIA-412) 2002 and 2003; EIA, *Electric Power Annual 2003*, DOE/EIA-0348(2003) (Washington, D.C., December 2004), Tables 8.3 and 8.4

Notes: EIA suspended collection of this dataset in 2004.

¹ Totals may not equal sum of components, because of independent rounding.

² Number of employees was not submitted by some publicly owned electric utilities, because the number of electric utility employees could not be separated from the other municipal employees, or the electric utility outsourced much of the work.

NA = not available