

PECO

EXHIBIT CROSS-X 8

**PECO Energy Company  
Docket No. R00973953**

**Mid-Atlantic Power Supply Association's  
Responses to PECO's  
Interrogatories and Document Requests  
Set IV**

PROTHONOTARY'S OFFICE

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RECORDED

- 3. With respect to Exhibit DEJ-1S, please explain the basis for, and all documents relating to, MAPSA's load growth forecast of 2% (point number 4).

~~EXTRA COPY~~

**Response:**

The 2% load growth forecast was calculated on the basis of information published in (1) Electric Sales and Revenue - 1995, (Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy, December 1996); (2) Financial Statistics of Major U.S. Publicly Owned Electric Utilities - 1993, (Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Department of Energy, February 1995); and (3) Edison Electric Institute Statistical Yearbook - 1995 which show national load growth between 1989 and 1995. In addition, information published in Electric Sales Overview (PECO Energy Co.) (Resource Data International, Inc., 1997) showed an average load growth of 5.5% for PECO for the years 1988-1994 (ranging from 1.4% growth in MWh between 1988 and 1989 and 11.5% growth in MWh between 1990 and 1991). Copies of pertinent portions of the above publications are attached.

**DOCKETED**  
OCT 22 1997

**DOCUMENT FOLDER**

R-00973953  
 R-00973953 (0001-0007)  
 PECO CROSS-EXAM. Exhibit 8  
 Philadelphia 10-15-97  
 GST

# **Electric Sales and Revenue 1995**

**December 1996**

**Energy Information Administration  
Office of Coal, Nuclear, Electric and Alternate Fuels  
U.S. Department of Energy  
Washington, DC 20585**

**This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.**

# Preface

The *Electric Sales and Revenue* is prepared by the Coal and Electric Data and Renewables Division; Office of Coal, Nuclear, Electric and Alternate Fuels; Energy Information Administration (EIA); U.S. Department of Energy. Information is provided on electricity sales, associated revenue, average revenue per kilowatthour sold, and number of consumers throughout the United States. The data provided in the *Electric Sales and Revenue* are presented at the national, Census division, State, and electric utility levels. The information is based on annual data reported by electric utilities for the calendar year ending December 31, 1995.

## Target Audience

In the private sector, users of the *Electric Sales and Revenue* include researchers, analysts, and members of the electric power industry community. Other users include financial and investment institutions, economic development organizations, special interest groups, lobbyists, electric power associations, and the news media.

In the public sector, users include analysts, researchers, statisticians, and other professionals engaged in regulatory, policy, and program activities for Federal, State, and local governments. Congress,

other legislative bodies, public service commissions, and other special government groups also use information on general trends related to electricity at State and national levels. Data in this report are used in analytical studies to evaluate new legislation and regulatory alternatives and to forecast demand for electric power.

## Source of Data

Data published in the *Electric Sales and Revenue* are compiled from Form EIA-861, "Annual Electric Utility Report." Form EIA-861 is an annual census of electric utilities in the United States, its territories, and Puerto Rico. The form is used to collect information on the production and sale of electricity from approximately 3,200 electric utilities. A detailed description of the form is included in Appendix B, Technical Notes.

National level data presented in Tables 1 through 13 and discussed in the text include the fifty States and the District of Columbia, but do not include American Samoa, Guam, Puerto Rico, and the Virgin Islands. Data for these four power authorities are included in the utility-level data displayed in Tables 14 through 17.

Item	1991	1992	1993	1994	1995
<b>Sales (million kilowatt-hours)</b>					
Residential	955,417	935,919	994,781	1,008,482	1,042,501
Commercial	765,664	761,271	794,573	820,269	862,685
Industrial	946,683	972,714	977,164	1,007,981	1,012,693
Other <sup>1</sup>	94,830	83,442	94,944	97,220	85,407
<b>U.S. Total</b>	<b>2,762,804</b>	<b>2,753,346</b>	<b>2,861,462</b>	<b>2,934,563</b>	<b>3,013,287</b>
<b>Revenue (thousand dollars)</b>					
Residential	76,327,977	74,348,356	82,313,324	84,552,370	87,609,598
Commercial	57,653,250	58,342,561	61,531,269	63,383,992	66,364,681
Industrial	45,737,187	46,992,176	47,357,145	48,869,883	47,175,456
Other <sup>1</sup>	6,138,369	6,292,219	6,527,351	6,658,996	6,367,156
<b>U.S. Total</b>	<b>185,856,783</b>	<b>185,975,312</b>	<b>197,728,189</b>	<b>203,764,949</b>	<b>207,716,891</b>

<sup>1</sup> Includes sales for public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.  
 Notes: Data are final. Totals may not equal sum of components because of independent rounding.  
 Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

Table 4. U.S. Sales to Ultimate Consumers and Associated Revenue by Class of Ownership, 1991 Through 1995

Item	1991	1992	1993	1994	1995
<b>Sales (million kilowatt-hours)</b>					
Investor-Owned	2,110,538	2,112,271	2,186,289	2,237,630	2,292,442
Publicly Owned	397,448	385,386	406,998	421,643	431,618
Cooperative	205,083	206,939	221,208	228,535	235,726
Federal	52,944	48,768	48,370	46,783	49,501
<b>U.S. Total</b>	<b>2,762,804</b>	<b>2,763,366</b>	<b>2,861,462</b>	<b>2,934,563</b>	<b>3,013,287</b>
<b>Revenue (thousand dollars)</b>					
Investor-Owned	147,582,689	148,016,317	156,663,793	159,702,879	163,816,776
Publicly Owned	33,149,881	32,726,383	34,781,826	35,699,256	35,987,560
Cooperative	14,147,136	14,461,665	15,491,712	16,012,805	16,581,144
Federal	1,479,079	1,375,948	1,282,858	1,298,318	1,331,411
<b>U.S. Total</b>	<b>186,358,785</b>	<b>186,580,313</b>	<b>198,220,189</b>	<b>202,702,949</b>	<b>207,716,891</b>

Notes: Data are final. Totals may not equal sum of components because of independent rounding.  
 Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report."

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**TABLE 48**  
**ULTIMATE CUSTOMERS**  
**INVESTOR-OWNED ELECTRIC UTILITIES**  
**BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st\***

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1975	63,680,468	58,409,122	6,890,374	322,428	101,837	128,100	23	483
1976	64,898,400	57,630,538	6,805,345	329,522	103,754	126,674	22	484
1977	66,294,706	58,770,648	6,842,291	349,563	106,442	128,611	21	222
1978	67,922,875	60,219,110	7,106,705	364,129	108,288	128,488	23	232
1979	69,581,540	61,676,482	7,290,125	372,407	108,149	134,171	23	263
1980	70,996,563	62,902,588	7,469,959	375,540	123,589	134,595	23	269
1981	72,037,284	63,820,699	7,579,344	389,848	112,061	135,849	23	442
1982	72,979,298	64,648,932	7,702,142	378,018	113,251	136,484	23	450
1983	74,247,765	66,718,130	7,886,857	387,875	116,170	139,233	23	477
1984	75,769,055	68,987,481	8,088,025	389,304	117,874	140,907	23	441
1985	77,203,821	68,234,704	8,340,882	383,757	121,395	142,621	22	460
1986	78,717,500	69,548,070	8,535,189	384,294	129,525	145,957	22	444
1987	80,232,489	70,826,711	8,788,207	360,468	127,844	149,022	21	438
1988	81,679,878	72,038,802	8,985,299	367,854	131,711	151,888	22	490
1989	83,029,027	73,177,333	9,181,978	378,780	137,979	155,770	22	457
1990	84,240,674	74,229,521	9,332,439	383,418	140,521	159,689	23	463
1991	85,138,027	75,037,580	9,395,618	385,270	147,289	170,785	23	464
1992	86,221,811	75,986,426	9,522,074	384,088	146,301	173,414	23	488
1993	87,324,291	76,896,776	9,623,413	383,005	238,623	182,792	23	459
1994	88,433,759	77,824,272	9,790,478	389,383	240,467	189,471	187	501
1995+	89,881,891	78,354,068	9,889,834	393,579	243,764	196,180	96	381

\*Commercial and industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.  
 +Beginning in 1995, ultimate customers are yearly average customers, not as of December 31 (year end).

**TABLE 49**  
**CUSTOMERS IN PERCENT OF TOTAL**  
**TOTAL ELECTRIC UTILITY INDUSTRY**  
**BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st\***

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1975	88.7 %	10.5 %	0.5 %	0.1 %	0.2 %	0.0 %	0.0 %
1976	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1977	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1978	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1979	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1980	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1981	88.6	10.5	0.5	0.2	0.2	0.0	0.0
1982	88.6	10.5	0.6	0.1	0.2	0.0	0.0
1983	88.5	10.6	0.5	0.2	0.2	0.0	0.0
1984	88.5	10.6	0.5	0.2	0.2	0.0	0.0
1985	88.3	10.8	0.5	0.2	0.2	0.0	0.0
1986	88.3	10.8	0.5	0.2	0.2	0.0	0.0
1987	88.3	10.8	0.9	0.2	0.2	0.0	0.0
1988	88.2	10.9	0.9	0.2	0.2	0.0	0.0
1989	88.2	10.9	0.5	0.2	0.2	0.0	0.0
1990	88.1	11.0	0.5	0.2	0.2	0.0	0.0
1991	88.1	11.0	0.5	0.2	0.2	0.0	0.0
1992	88.1	11.0	0.5	0.2	0.2	0.0	0.0
1993	87.9	10.9	0.5	0.4	0.3	0.0	0.0
1994	87.9	10.9	0.5	0.4	0.3	0.0	0.0
1995+	87.8	10.8	0.5	0.4	0.4	0.0	0.0

\*Beginning in 1995, ultimate customers are yearly average customers, not as of December 31 (year end).  
 based on customer data in Table 47.

## SECTION VII CUSTOMERS

**TABLE 47  
ULTIMATE CUSTOMERS  
TOTAL ELECTRIC UTILITY INDUSTRY  
BY YEAR AND CLASS OF SERVICE AT DECEMBER 31<sup>st</sup>**

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter- depart- mental
1975	81,844,880	72,570,187	8,581,108	414,685	118,555	147,387	29	4,859
1976	83,813,161	74,181,848	8,750,849	427,403	118,130	148,887	28	4,838
1977	85,580,312	75,823,145	8,943,732	448,009	120,504	149,834	28	4,770
1978	87,687,954	77,775,887	9,148,399	464,637	121,899	152,438	30	4,883
1979	89,771,985	79,629,180	9,388,572	477,874	124,228	158,098	30	5,003
1980	92,853,471	82,153,162	9,688,809	484,852	142,724	168,120	30	5,874
1981	94,011,289	83,304,355	9,847,280	518,896	141,051	197,187	31	4,419
1982	95,250,288	84,371,779	9,876,274	533,835	148,878	218,875	31	2,898
1983	96,985,531	86,842,185	10,268,448	509,215	153,658	219,879	31	3,103
1984	98,371,028	87,938,985	10,563,239	525,892	138,703	188,383	29	1,975
1985	101,579,271	88,818,728	10,920,881	499,728	158,307	178,759	28	1,862
1986	102,952,783	90,994,586	11,114,300	498,254	161,377	182,257	28	1,991
1987	104,824,233	92,399,323	11,386,008	487,572	185,188	184,368	27	1,748
1988	108,411,258	93,921,875	11,837,444	481,282	169,782	188,954	28	1,871
1989	108,488,242	95,816,026	11,876,449	508,597	176,215	189,954	28	1,973
1990	110,102,079	97,033,887	12,135,273	508,145	189,444	222,898	29	2,303
1991	111,434,108	98,184,250	12,288,448	513,727	211,439	238,918	29	2,298
1992	113,080,193	99,835,244	12,481,308	529,701	212,328	239,048	29	2,524
1993	115,216,208	101,307,528	12,533,045	538,458	429,361	389,574	29	10,213
1994	118,807,312	102,728,353	12,783,840	567,801	431,187	403,974	208	10,869
1995	118,180,005	103,884,131	12,922,588	572,466	447,481	423,310	116	8,923

*Commercial and industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another. Beginning in 1995, ultimate customers are yearly average customers, not as of December 31 (year end).*

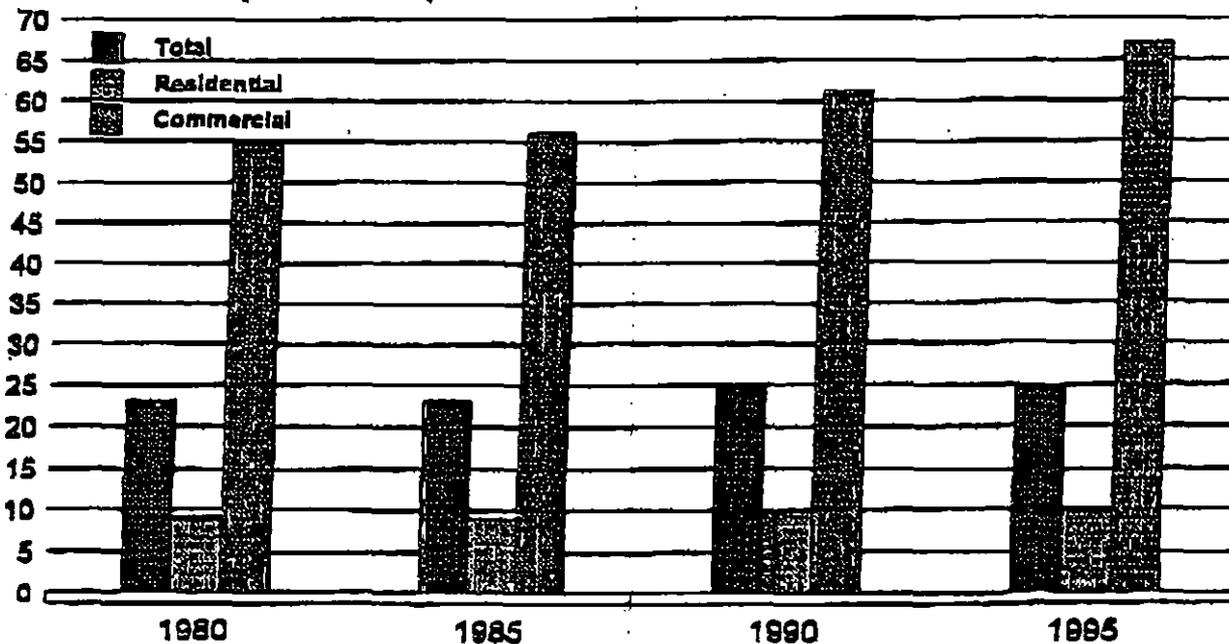
**TABLE 45**  
**AVERAGE ANNUAL KWH USE PER CUSTOMER**  
**TOTAL ELECTRIC UTILITY INDUSTRY**      **INVESTOR-OWNED ELECTRIC UTILITIES**

Total Electric Utility Industry				Investor-Owned Electric Utilities					
Year	Total Ultimate Customers	Residential	Commercial	Industrial	Year	Total Ultimate Customers	Residential	Commercial	Industrial
1975	21,417	8,178	48,984	N/A	1975	21,305	7,855	50,968	N/A
1976	22,361	8,360	50,733	N/A	1976	22,263	7,999	52,580	N/A
1977	23,052	8,693	52,892	N/A	1977	22,938	8,278	54,520	N/A
1978	23,315	8,849	53,065	N/A	1978	23,197	8,430	54,653	N/A
1979	23,481	8,843	53,197	N/A	1979	23,287	8,366	54,584	N/A
1980	23,167	9,025	54,538	N/A	1980	22,949	8,539	55,216	N/A
1981	23,025	8,825	53,402	1,899,211	1981	22,753	8,311	55,742	N/A
1982	22,197	8,743	52,290	1,431,408	1982	21,940	8,251	55,379	1,512,487
1983	22,479	8,814	52,822	1,867,077	1983	22,293	8,379	57,063	1,534,956
1984	23,152	8,978	55,205	1,681,280	1984	23,173	8,500	59,270	1,622,100
1985	22,903	8,908	58,109	1,598,675	1985	23,148	8,487	60,517	1,686,809
1986	23,071	9,090	57,191	1,825,242	1986	23,201	8,627	61,462	1,728,481
1987	23,472	9,298	58,499	1,719,914	1987	23,653	8,816	62,801	1,813,586
1988	24,187	9,498	60,437	1,784,084	1988	24,325	9,082	64,748	1,882,303
1989	24,359	9,470	60,578	1,793,268	1989	24,543	9,063	65,212	1,888,875
1990	24,551	9,508	61,277	1,793,457	1990	24,527	9,056	63,796	1,827,987
1991	24,691	9,719	61,565	1,779,766	1991	24,788	9,280	68,560	1,809,554
1992	24,350	9,392	61,022	1,747,274	1992	24,530	8,949	65,998	1,820,737
1993	24,870	9,564	64,424	1,759,234	1993	25,090	9,394	69,470	1,877,728
1994	25,190	9,868	65,858	1,703,065	1994	25,423	9,378	71,352	1,874,409
1995	25,448	10,042	66,821	1,757,621	1995	25,669	9,683	72,181	1,920,086

N/A Not Available.

**Chart VI-D**  
**Average Kilowatt-hours Used**  
**Total Electric Utility Industry**

Kilowatt-hours (Thousands)



Based on Table 45, as shown above.

**TABLE 44**  
**ENERGY SALES**  
**INVESTOR-OWNED ELECTRIC UTILITIES**  
**BY QUARTER AND CLASS OF SERVICE**  
**1990-1995 - KILOWATTHOURS IN MILLIONS**

Year-Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
<b>YEAR-1990</b>								
First Quarter	505,562	173,077	144,638	171,860	2,728	13,005	629	427
Second Quarter	488,830	146,444	148,618	179,305	2,482	12,778	608	417
Third Quarter	567,537	191,838	171,967	187,362	2,475	12,874	621	282
Fourth Quarter	499,014	158,105	147,788	178,038	2,812	12,363	628	303
Total	2,060,744	667,683	610,418	717,365	10,478	51,021	2,486	1,429
<b>YEAR-1991</b>								
First Quarter	508,913	176,513	146,624	169,914	2,745	12,859	659	201
Second Quarter	505,254	159,222	152,475	178,149	2,430	14,036	634	263
Third Quarter	577,781	198,005	174,413	187,480	2,462	14,468	628	304
Fourth Quarter	508,279	181,686	150,284	178,969	2,828	13,486	628	356
Total	2,100,226	692,427	623,186	719,496	10,506	64,869	2,549	1,184
<b>YEAR-1992</b>								
First Quarter	518,528	177,331	148,482	175,175	2,789	13,873	644	213
Second Quarter	498,634	147,151	156,478	181,602	2,463	14,254	613	283
Third Quarter	568,967	185,515	172,549	189,884	2,527	15,520	618	375
Fourth Quarter	518,836	168,438	152,944	182,302	2,818	14,607	633	186
Total	2,104,166	678,435	624,453	729,943	10,597	58,155	2,508	1,068
<b>YEAR-1993</b>								
First Quarter	536,635	187,947	157,024	178,188	2,848	11,135	658	187
Second Quarter	510,077	182,320	158,639	184,255	2,509	11,301	617	218
Third Quarter	600,448	208,144	187,784	188,171	2,658	12,285	584	277
Fourth Quarter	528,823	169,074	160,438	183,660	2,907	11,431	591	178
Total	2,175,181	717,485	663,885	733,482	10,822	46,162	2,447	860
<b>YEAR-1994</b>								
First Quarter	546,882	193,077	163,820	178,312	2,721	11,208	733	213
Second Quarter	530,725	159,113	168,768	187,730	2,579	11,612	661	265
Third Quarter	614,457	206,762	194,885	187,155	2,831	12,281	678	318
Fourth Quarter	538,165	165,892	168,582	190,384	2,832	11,580	654	231
Total	2,230,229	724,843	695,822	783,528	10,783	46,669	2,724	1,027
<b>YEAR-1995</b>								
First Quarter	551,843	188,716	185,537	182,478	2,728	11,600	682	88
Second Quarter	535,885	168,583	170,462	180,057	2,478	11,802	568	146
Third Quarter	643,088	225,142	204,706	186,781	2,518	13,187	648	105
Fourth Quarter	555,573	178,836	173,442	180,327	2,945	11,481	622	120
Total	2,286,379	760,878	714,138	759,624	10,681	48,069	2,531	470

Note: Total may not equal sum of components due to independent rounding.

**TABLE 43**  
**ENERGY SALES**  
**TOTAL ELECTRIC UTILITY INDUSTRY**  
**BY QUARTER AND CLASS OF SERVICE**  
**1980-1986 - KILOWATTHOURS IN MILLIONS**

Year-Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter- depart- mental
<b>YEAR-1980</b>								
First Quarter	660,238	238,060	174,233	223,131	3,880	18,353	1,372	1,067
Second Quarter	634,628	200,238	177,382	232,597	3,466	17,982	1,280	1,103
Third Quarter	741,322	264,868	208,253	243,821	3,859	18,508	1,283	1,232
Fourth Quarter	648,388	212,835	179,000	232,227	4,110	17,888	1,340	987
Total	2,683,378	816,799	738,969	931,977	15,216	72,771	5,258	4,190
<b>YEAR-1981</b>								
First Quarter	686,183	243,210	176,538	222,263	4,071	18,089	1,377	534
Second Quarter	658,317	212,888	184,321	234,179	3,882	19,203	1,280	642
Third Quarter	753,511	271,857	210,703	248,333	3,713	19,942	1,373	880
Fourth Quarter	660,575	220,732	181,834	233,131	4,168	18,836	1,314	781
Total	2,758,588	948,807	763,398	934,866	16,833	76,073	5,263	2,818
<b>YEAR-1982</b>								
First Quarter	677,903	244,238	179,806	228,323	4,146	19,268	1,384	627
Second Quarter	642,829	202,018	182,050	234,246	3,688	18,889	1,282	816
Third Quarter	740,803	258,189	208,848	246,833	3,783	20,164	1,237	788
Fourth Quarter	673,884	228,884	185,154	236,858	4,180	19,069	1,312	556
Total	2,734,929	928,289	765,858	949,269	16,795	77,200	5,166	2,662
<b>YEAR-1983</b>								
First Quarter	686,864	258,905	189,039	224,191	4,665	19,102	1,458	598
Second Quarter	668,781	211,788	192,175	239,810	4,293	18,587	1,380	645
Third Quarter	791,800	291,337	227,283	251,239	4,324	19,184	1,115	738
Fourth Quarter	693,200	234,114	194,586	241,571	4,847	15,832	1,424	732
Total	2,840,733	995,144	803,094	966,611	18,134	69,885	5,376	3,711
<b>YEAR-1984</b>								
First Quarter	719,798	267,325	198,814	231,218	4,538	17,703	1,580	631
Second Quarter	682,827	220,834	202,230	246,480	4,355	17,824	1,488	708
Third Quarter	808,085	288,883	234,333	280,833	4,402	15,789	1,200	873
Fourth Quarter	711,244	231,688	200,122	262,734	5,189	19,258	1,533	772
Total	2,922,063	1,008,630	835,508	960,254	18,462	70,572	5,798	2,988
<b>YEAR-1985</b>								
First Quarter	723,517	282,080	189,573	238,704	4,185	16,315	1,428	221
Second Quarter	702,838	222,001	208,087	251,183	4,334	17,415	1,318	613
Third Quarter	848,038	313,033	247,928	261,977	4,401	18,920	1,146	631
Fourth Quarter	732,578	245,285	209,934	253,304	4,858	17,278	1,580	629
Total	3,007,469	1,042,389	865,501	1,006,178	17,887	69,929	5,481	2,094

*Note: Total may not equal sum of components due to independent rounding.*

**TABLE 38**  
**ENERGY SALES - TOTAL ELECTRIC UTILITY INDUSTRY**  
BY YEAR AND CLASS OF SERVICE  
KILOWATTHOURS IN MILLIONS

Year	Total Sales	Exports to Canada and Mexico	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter departmental
1975	1,738,107	5,083	1,733,024	586,148	418,059	681,558	13,807	43,825	4,273	5,443
1976	1,852,003	2,378	1,849,625	613,072	440,525	725,159	14,413	45,825	4,338	8,383
1977	1,853,535	2,744	1,850,791	652,345	458,287	757,148	14,418	48,242	4,212	7,179
1978	2,020,004	2,188	2,017,818	678,156	480,748	782,141	14,803	49,509	4,336	7,128
1979	2,086,582	2,182	2,084,400	695,986	494,723	817,617	14,792	48,804	4,256	7,412
1980	2,130,160	4,086	2,126,074	734,481	524,122	783,812	14,832	48,284	4,275	6,358
1981	2,153,908	1,832	2,152,076	730,479	521,898	818,541	14,883	63,737	4,206	6,230
1982	2,108,281	3,540	2,089,741	732,678	516,859	770,388	14,236	58,745	4,268	5,438
1983	2,163,124	3,337	2,159,787	750,293	545,801	782,884	13,944	57,287	4,300	5,368
1984	2,283,149	2,558	2,280,591	782,848	579,049	835,488	14,205	59,894	4,483	5,826
1985	2,310,847	4,865	2,305,982	792,875	605,865	820,301	14,644	62,185	4,704	5,328
1986	2,359,580	4,816	2,354,764	820,013	628,965	818,982	15,097	61,888	4,888	5,167
1987	2,441,384	5,881	2,435,503	846,487	658,445	843,709	14,388	63,047	4,888	4,541
1988	2,561,228	7,067	2,554,161	885,070	687,832	881,790	14,809	64,390	5,078	4,222
1989	2,635,138	15,135	2,620,003	898,802	718,915	912,772	14,570	69,334	5,294	4,315
1990	2,704,502	20,528	2,683,974	915,798	738,588	931,877	15,215	72,771	5,295	4,190
1991	2,745,128	8,540	2,736,588	948,807	753,296	934,906	15,633	78,873	5,253	2,818
1992	2,743,785	8,855	2,734,930	969,299	765,658	949,259	15,785	77,200	5,188	2,582
1993	2,860,410	10,855	2,849,555	984,144	803,094	958,611	18,134	69,685	5,376	2,711
1994	2,936,391	6,328	2,930,063	1,008,492	833,508	990,254	18,462	70,572	5,788	2,685
1995	3,016,618	9,147	3,007,471	1,042,398	869,801	1,008,178	17,987	69,829	6,481	2,884

Note: Total may not equal sum of components due to independent rounding.

\* Commercial and industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

**TABLE 39**  
**ENERGY SALES - INVESTOR-OWNED ELECTRIC UTILITIES**  
BY YEAR AND CLASS OF SERVICE  
KILOWATTHOURS IN MILLIONS

Year	Total Sales	Sales for Resales	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter departmental
1975	1,447,147	101,273	1,345,874	438,488	340,082	515,798	10,868	33,528	4,138	1,844
1976	1,530,288	99,498	1,430,790	453,774	355,555	568,134	11,276	34,810	3,930	2,311
1977	1,818,820	115,409	1,703,411	481,167	376,803	588,042	10,912	33,298	2,450	2,729
1978	1,873,477	118,718	1,558,761	501,409	384,726	620,470	11,042	34,386	2,085	2,843
1979	1,719,640	117,408	1,602,232	508,855	394,511	648,031	10,854	34,185	2,109	2,813
1980	1,732,553	118,745	1,613,808	532,025	408,285	623,472	10,820	34,449	2,196	2,621
1981	1,745,234	116,248	1,628,986	527,119	420,014	628,481	10,918	37,823	1,938	2,682
1982	1,701,020	108,796	1,591,224	530,713	431,588	576,380	10,718	36,967	1,924	2,925
1983	1,748,915	108,540	1,640,375	548,080	445,300	597,405	10,445	38,356	1,829	2,820
1984	1,841,185	104,168	1,737,017	563,703	473,470	643,486	10,379	40,783	2,045	3,204
1985	1,871,702	102,773	1,768,929	573,253	488,320	638,513	10,338	43,565	2,252	2,687
1986	1,913,662	105,621	1,808,041	594,019	518,639	637,116	10,346	42,948	2,281	2,729
1987	1,898,223	108,675	1,879,558	618,488	544,618	658,417	10,395	43,185	2,239	2,200
1988	2,078,543	108,488	1,968,055	648,622	575,817	685,838	10,399	44,415	2,358	1,887
1989	2,129,953	108,801	2,021,152	657,858	583,020	707,108	10,441	48,433	2,482	1,913
1990	2,167,884	107,140	2,060,744	687,583	610,415	717,355	10,478	51,021	2,488	1,428
1991	2,233,985	133,328	2,100,657	692,477	629,196	716,498	10,505	54,860	2,549	1,194
1992	2,247,951	146,785	2,101,166	675,435	624,483	728,943	10,567	58,155	2,508	1,089
1993	2,348,028	172,847	2,175,181	717,485	663,826	733,482	10,882	48,182	2,447	860
1994	2,388,912	165,883	2,223,029	724,843	699,622	753,580	10,789	48,689	2,724	1,027
1995	2,453,193	188,793	2,264,400	758,878	714,138	759,824	10,681	48,089	2,831	478

Note: Total may not equal sum of components due to independent rounding.

\* To non-investor-owned electric utilities and exports.

\* Commercial and industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

# **Financial Statistics of Major U.S. Publicly Owned Electric Utilities 1993**

**February 1995**

**Energy Information Administration  
Office of Coal, Nuclear, Electric and Alternate Fuels  
U.S. Department of Energy  
Washington, DC 20585**

**This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.**

The Composite Balance Sheet for publicly owned generator electric utilities revealed a 5.0-percent increase for the year (Table 6).

**Assets and Other Debits.** Increases in other property and investments, deferred debits, and electric utility plant contributed the most significant gains on the asset side of the balance sheet in 1993, increasing 12.4 percent, 16.4 percent, and 3.1 percent, respectively.

**Electric Utility Plant.** Electric utility plant in service increased 3.0 percent to \$80.5 billion in 1993 (Table 9). Including adjustments, utility plant increased to \$82.0 billion. The increase in steam production plant of \$0.8 billion was almost matched by the increase in distribution plant of \$0.7 billion. Together, increases in these two categories of plant accounted for almost two-thirds of the increase in electric plant in service. While essentially unchanged from the prior year, nuclear plant investments of \$18.8 billion accounted for 21.9 percent of the total electric utility plant revealing the fact that publicly owned generator electric utilities have significant nuclear plant investment exposure. Other changes in the asset accounts included:

- The single largest increase was in other property and investments, up 12.4 percent or \$2.3 billion to \$20.5 billion in 1993. Investments and special funds accounted for 80.3 percent of these assets or \$16.4 billion.
- Construction work in progress (CWIP) increased to \$3.8 billion in 1993, up \$0.2 billion over the \$3.5 billion figure for 1992 (note difference does not add due to rounding). CWIP as a percent of total electric utility plant was 4.4 percent in 1993, up from 4.3 percent in 1992.
- Accounts receivable accounted for \$0.2 billion of the \$0.4 billion increase in current and accrued assets in 1993. Cash working funds and investments accounted for \$9.6 billion or 62.3 percent of current and accrued assets.
- Deferred debits increased almost \$2.0 billion between 1992 and 1993, amounting to \$14.0 billion by year end.

**Liabilities and Other Credits.** Increases in long-term debt dominated the changes on the liabilities side of the balance sheet, accounting for 77.7 percent of the increase. Bonds outstanding at year-end increased from \$72.4 billion in 1992 to \$75.2 billion in 1993, a 3.8 percent increase. While only \$0.7 billion, advances from the municipalities and other accounted for the greatest percent increase in a liability account at 27.4 percent. Other significant changes in liability and other credit accounts included:

- Proprietary capital increases of 3.1 percent did not keep pace with the increases in debt. The

result was an increase in financial leverage for this segment of the industry.

- Increased notes payable and miscellaneous current and accrued liabilities accounted for most of the \$0.5 billion increase in current and accrued liabilities in 1993.

## Consumers, Sales, and Revenue

The information in this section is based upon the Form EIA-861.

**Sales Growth.** Sales to ultimate consumers of the generator electric utilities grew 2.3 percent in 1993, a modest improvement over the 1.6 percent increase in sales between 1991 and 1992 (Table 10). The residential sector reversed the decline in sales of the previous year by increasing 4.1 percent during the year. Commercial and industrial sales increased at more modest rates of 2.4 percent and 1.2 percent, respectively. A colder first quarter combined with a warmer third quarter helped increase the weather-sensitive residential sales. The improved economy contributed to the increase in commercial sales. The variance in the growth rates across the sectors shifted the relative sector mix in sales to ultimate consumers.

**Average Revenue (Revenues Divided by Sales).** Commercial and industrial consumers saw the greatest increases, 2.6 percent in each instance. Residential consumers experienced a 1.6 percent increase in average revenue paid for electricity. Increases in consumption per customer combined with these increases in average revenue raised the average annual electric bill paid by 4.4 percent for both the residential and commercial consumers. On average, residential consumers paid \$57.51 per month while commercial consumers paid \$394.04 per month. Consumption per industrial consumer decreased 1.8 percent between 1992 and 1993, allowing the average monthly bill paid by these consumers to increase a modest 0.7 percent.

**Retail sales** increased a substantial 7.8 percent between 1992 and 1993. Sales for resale accounted for 46.1 percent of the total sales of electricity in 1993, up from 44.8 percent in 1992. Sales for resale revenues represented 34.4 percent of total revenues from the sales of electricity, unchanged from the prior year. Average revenues from sales for resale were 38.2 mills per kilowatthour in 1993, down 2.9 percent from the 39.3 mills per kilowatthour in 1992.

Total revenues were up 4.8 percent for the year according to Table 10. Virtually all of the increase (99.8 percent) in revenues in 1993 was driven by the increase in sales volume, as average revenues remained essentially unchanged at 51.3 mills per kilowatthour sold.

**Table 10. Number of Consumers, Sales, and Operating Revenue for Major U.S. Publicly Owned Generator Electric Utilities, 1989-1993**

Item	1993	1992	1991	1990	1989
<b>Number of Consumers</b>					
Residential _____	7,489,340	7,209,659	7,390,039	7,165,754	7,029,539
Commercial or Small _____	885,268	877,793	894,804	893,611	829,909
Industrial or Large _____	51,968	60,486	44,202	60,596	49,864
Other _____	82,891	158,098	162,871	164,051	127,416
<b>Total Ultimate Consumers _____</b>	<b>8,611,478</b>	<b>8,305,936</b>	<b>8,421,716</b>	<b>8,284,012</b>	<b>8,142,718</b>
<b>Sales for the Year (megawatthours)</b>					
Residential _____	74,262,802	71,313,399	71,887,965	70,078,774	68,285,000
Commercial or Small _____	68,461,485	68,801,845	65,263,729	65,302,897	62,808,537
Industrial or Large _____	71,517,638	78,828,918	68,550,382	87,378,804	84,888,200
Other _____	17,804,344	17,877,995	17,849,031	17,378,120	15,418,212
<b>Total Sales to Ultimate Consumers _____</b>	<b>231,079,269</b>	<b>236,739,118</b>	<b>223,145,107</b>	<b>230,138,165</b>	<b>211,407,872</b>
Sales for Resale _____	198,850,130	184,258,848	183,528,532	184,828,059	181,807,893
<b>Total Sales _____</b>	<b>430,929,403</b>	<b>411,048,865</b>	<b>406,653,423</b>	<b>404,972,224</b>	<b>393,275,965</b>
<b>Operating Revenues for the Year (thousand dollars)</b>					
Residential _____	5,188,430	4,885,087	4,759,572	4,673,479	4,458,953
Commercial or Small _____	4,658,820	4,434,166	4,344,285	4,308,418	4,015,774
Industrial or Large _____	3,945,388	3,248,987	2,917,161	3,014,458	2,850,948
Other _____	1,378,002	1,242,885	1,165,045	1,142,870	1,008,879
<b>Total Revenues from Sales to Ultimate Consumers _____</b>	<b>14,170,640</b>	<b>13,809,125</b>	<b>13,231,171</b>	<b>13,137,625</b>	<b>12,423,354</b>
Sales for Resale _____	7,592,395	7,344,170	8,085,157	7,051,730	6,815,891
<b>Total Revenues From Sales of Electricity _____</b>	<b>21,763,035</b>	<b>21,051,295</b>	<b>21,316,328</b>	<b>20,179,355</b>	<b>19,239,245</b>

Notes: Totals may not equal sum of components because of independent rounding. Detailed data are provided in Table 25. The number of publicly owned generating electric utilities for end of period is 228 for 1989, 226 for 1990, 216 for 1991, 216 for 1992, and 214 for 1993. Emerald Peoples Utility District (OR), City of Bryan (OH), and Northern Wasco County PUD (OR) were nongenerators for 1989 through 1991, but became generators in 1992. Illinois Municipal Electric Agency (IL) and Wisconsin Public Power Incorporated System (WI) were nongenerators in 1989 and 1990, but became generators in 1991. The City of Mansfield (MO) was a generator in 1989 and 1990, but became a nongenerator in 1991.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report." Data are based on calendar year submissions.

**Table 19. Number of Consumers, Sales, and Operating Revenue for Major U.S. Publicly Owned Nongenerator Electric Utilities, 1989-1993**

Item	1993	1992	1991	1990	1989
<b>Number of Consumers</b>					
Residential _____	3,829,289	3,706,325	3,624,017	3,556,400	3,454,820
Commercial or Small _____	517,511	499,250	503,917	490,348	451,940
Industrial or Large _____	48,669	45,537	39,629	37,854	33,664
Other _____	66,043	67,037	103,277	99,949	94,673
<b>Total Ultimate Consumers _____</b>	<b>4,461,512</b>	<b>4,337,349</b>	<b>4,261,840</b>	<b>4,184,551</b>	<b>4,035,117</b>
<b>Sales for the Year (megawatt-hours)</b>					
Residential _____	48,803,402	48,308,852	48,809,977	46,347,843	44,821,341
Commercial or Small _____	22,128,772	21,815,855	25,987,819	25,769,440	22,530,518
Industrial or Large _____	54,445,202	51,463,638	44,893,394	43,848,154	42,770,643
Other _____	2,869,488	2,836,880	3,146,885	3,055,844	2,987,372
<b>Total Sales to Ultimate Consumers _____</b>	<b>128,246,864</b>	<b>122,324,225</b>	<b>122,837,075</b>	<b>118,121,281</b>	<b>112,309,874</b>
Sales for Resale _____	7,428,071	7,608,865	7,269,781	10,767,467	8,041,747
<b>Total Sales _____</b>	<b>135,674,935</b>	<b>130,933,090</b>	<b>130,106,856</b>	<b>128,888,748</b>	<b>120,351,621</b>
<b>Operating Revenues for the Year (thousand dollars)</b>					
Residential _____	2,998,784	2,785,988	2,752,710	2,659,845	2,857,548
Commercial or Small _____	1,448,480	1,412,309	1,680,252	1,586,862	1,463,840
Industrial or Large _____	2,975,104	2,563,828	2,168,095	2,130,794	2,083,283
Other _____	182,112	189,783	188,756	190,897	183,338
<b>Total Revenue from Sales to Ultimate Consumers _____</b>	<b>7,584,480</b>	<b>6,951,907</b>	<b>6,819,813</b>	<b>6,568,498</b>	<b>6,587,904</b>
Sales for Resale _____	246,814	222,878	228,388	345,818	258,140
<b>Total Revenue from Sales of Electricity _____</b>	<b>7,831,294</b>	<b>7,174,785</b>	<b>7,048,201</b>	<b>6,914,316</b>	<b>6,846,044</b>

Note: Totals may not equal sum of components because of independent rounding. Detailed data are provided in Table 25. The number of publicly owned nongenerating electric utilities for end of period is 269 for 1993, 258 for 1992, 252 for 1991, 251 for 1990, and 240 for 1989. Emerald Peoples Utility District (OR), City of Bryan (OH), and Northern Wasco County PUD (OR) were nongenerators for 1989 through 1991, but became generators in 1992. Illinois Municipal Electric Agency (IL) and Wisconsin Public Power Incorporated System (WI) were nongenerators in 1989 and 1990, but became generators in 1991. The City of Mansfield (WI) was a generator in 1989 and 1990, but became a nongenerator in 1991.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report." Data are based on calendar year submissions.

Item	1993	1992	1991	1990	1989
<b>Number of Consumers</b>					
Residential	2,068,384	2,051,709	2,099,789	2,004,801	2,046,125
Commercial or Small	299,862	298,130	294,059	297,885	303,841
Industrial or Large	23,482	23,782	20,285	23,732	24,028
Other	18,038	18,858	20,055	24,462	19,225
<b>Total Ultimate Consumers</b>	<b>2,409,766</b>	<b>2,392,479</b>	<b>2,374,189</b>	<b>2,350,880</b>	<b>2,393,219</b>
<b>Sales for the Year (megawatthours)</b>					
Residential	12,864,338	12,802,964	12,292,289	12,283,576	12,797,465
Commercial or Small	18,091,042	18,772,290	18,643,267	18,825,853	18,477,843
Industrial or Large	12,437,261	12,741,756	12,451,063	11,857,128	17,450,359
Other	2,180,702	2,628,584	2,299,173	2,234,448	2,220,118
<b>Total Sales to Ultimate Consumers</b>	<b>45,573,343</b>	<b>46,945,694</b>	<b>45,625,792</b>	<b>45,711,005</b>	<b>51,945,785</b>
Sales for Resale	44,312,299	39,088,969	33,831,354	35,838,960	40,700,200
<b>Total Sales</b>	<b>89,885,642</b>	<b>86,034,663</b>	<b>79,457,146</b>	<b>81,549,965</b>	<b>92,646,085</b>
<b>Operating Revenue for the Year (thousand dollars)</b>					
Residential	1,108,159	1,073,325	1,002,074	888,384	893,414
Commercial or Small	1,818,662	1,535,038	1,488,565	1,578,384	1,478,254
Industrial or Large	885,778	881,541	838,360	775,832	994,231
Other	143,731	177,006	145,979	162,520	148,472
<b>Total Revenues from Sales to Ultimate Consumers</b>	<b>3,777,225</b>	<b>3,667,910</b>	<b>3,474,978</b>	<b>3,315,120</b>	<b>3,614,371</b>
Sales for Resale	2,191,533	2,065,351	1,858,972	1,948,802	1,982,181
<b>Total Revenues From Sales of Electricity</b>	<b>5,968,758</b>	<b>5,733,261</b>	<b>5,333,950</b>	<b>5,263,922</b>	<b>5,596,552</b>

Note: Totals may not equal sum of components because of independent rounding. The number of generating publicly owned electric utilities for end of period is 58 for June 30, 1993; 56 for June 30, 1992; 53 for June 30, 1991; 52 for June 30, 1990; and 50 for June 30, 1989. The City of Vineland (NJ) changed fiscal year from June 30 to December 31 in 1991; the California Department of Water Resources (CA) changed fiscal year from December 31 to June 30 in 1992; and the Wisconsin Public Power Inc Sys (WI) changed fiscal year from December 31 to June 30 in 1993. Emerald Peoples Utility District (OR), City of Bryan (OH), and Northern Wilcox County PUD (GA) were non-generators for 1989 through 1991, but became generators in 1992. The City of Foley (AL) and the South Carolina Public Service Authority (SC) changed fiscal year from June 30 to December 31 in 1990. The Utah Associated Municipal Power System (UT) changed fiscal year from June 30 to March 31 in 1991. The City of Mansfield (WI) was a generator in 1989 and 1990, but became a nongenerator in 1991. The Wisconsin Public Power Incorporated System (WI) was a nongenerator in 1989 and 1990, but became a generator in 1991.

Source: Energy Information Administration, Form EIA-861, "Annual Electric Utility Report." Data are based on calendar year submissions.

**Electric Sales Overview (PECO Energy Co., Utilities):1**

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	1988						
	Sales (MWh)	Sales (%)	Rate (\$/MWh)	Revenues (\$)	Revenues (%)	Number of Customers	Revenue/Customer (\$)
<b>Wholesale</b>	<del>1,511,000</del>	2	59.85	30,250,000	1	N/A	N/A
<b>Retail</b>							
Residential	9,734,100	30	112.00	1,099,285,000	39	1,280,054	872
Commercial	4,542,630	14	105.20	477,881,000	17	130,870	3,657
Industrial	18,345,921	61	85.84	1,077,840,000	38	4,478	240,687
Pub & Hwy Lt	187,658	1	189.67	33,537,000	1	750	44,716
Other	<u>798,591</u>	<u>2</u>	<u>64.04</u>	<u>61,208,000</u>	<u>2</u>	<u>1</u>	<u>17,069,333</u>
<b>Retail Totals</b>	<b>31,610,898</b>	<b>98</b>	<b>88.65</b>	<b>2,738,761,000</b>	<b>87</b>	<b>1,385,855</b>	<b>1,863</b>
<b>Total Sales</b>	<b>32,181,598</b>	<b>100</b>	<b>88.07</b>	<b>2,770,011,000</b>	<b>88</b>	<b>1,385,855</b>	<b>N/A</b>
<b>Other Revenues</b>	N/A	N/A	N/A	57,848,000	2	N/A	N/A
<b>Credits/Adjusts</b>	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	<b>32,181,598</b>	<b>100</b>	<b>86.07</b>	<b>2,827,857,000</b>	<b>100</b>	<b>1,385,855</b>	<b>N/A</b>



# Electric Sales Overview (PECO Energy Co., Utilities):1

10/10/1997 - 13:23:0

OCT 10 '97 06:45PM MRLA@ESTR.HAWKE

1998

	Sales (MWh)	Sales (%)	Rate (\$/MWh)	Revenue (\$)	Revenue (%)	Number of Customers	Revenue/ Customer (\$)
Wholesale	<del>2,644,383</del>	2	61.82	32,280,000	1	N/A	N/A
<b>Retail</b>							
Residential	8,639,582	30	117.01	1,127,804,000	38	1,273,840	886
Commercial	4,790,052	15	109.80	524,982,000	18	134,056	3,918
Industrial	16,561,820	51	70.65	1,170,095,000	38	4,401	265,870
Pub Bld & Hwy Lt	201,271	1	184.87	33,203,000	1	751	44,212
Other	<u>829,082</u>	<u>3</u>	<u>87.38</u>	<u>55,848,000</u>	<u>2</u>	<u>3</u>	<u>18,818,000</u>
<b>Retail Totals</b>	<b>32,021,887</b>	<b>98</b>	<b>80.84</b>	<b>2,812,032,000</b>	<b>97</b>	<b>1,412,853</b>	<b>2,061</b>
<b>Total Sales</b>	<b>32,644,383</b>	<b>100</b>	<b>80.18</b>	<b>2,844,292,000</b>	<b>98</b>	<b>1,412,853</b>	<b>N/A</b>
Other Revenue	N/A	N/A	N/A	53,586,000	2	N/A	N/A
Credits/Adjusts	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	<b>32,644,383</b>	<b>100</b>	<b>80.18</b>	<b>2,897,878,000</b>	<b>100</b>	<b>1,412,853</b>	<b>N/A</b>

# Electric Sales Overview (PECO Energy Co., Utilities):1

10/10/1997 1:20:59

OCT 10 '97 06:46PM MALATESTA HAWKE

	1990						
	Sales (MWh)	Sales (%)	Rate (\$/MWh)	Revenues (\$)	Revenues (%)	Number of Customers	Revenue/ Customer (\$)
Wholesale	<del>1,234,567</del>	7	48.43	114,884,000	3	N/A	N/A
<b>Retail</b>							
Residential	9,474,104	28	128.70	1,200,382,000	36	1,284,871	834
Commercial	4,826,180	14	118.23	582,408,000	18	138,373	4,271
Industrial	16,357,096	48	75.50	1,234,857,000	37	4,344	284,280
Pub Str & Hwy Lt	188,819	1	174.48	34,890,000	1	779	44,531
Other	<u>809,010</u>	<u>2</u>	<u>72.82</u>	<u>58,883,000</u>	<u>2</u>	<u>3</u>	<u>18,684,333</u>
Retail Totals	31,765,209	93	97.85	3,111,438,000	94	1,428,370	2,181
<b>Total Sales</b>	34,239,471	100	94.23	3,226,322,000	98	1,428,370	N/A
Other Revenues	N/A	N/A	N/A	71,582,000	2	N/A	N/A
Credits/Adjusts	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	34,239,471	100	94.23	3,297,904,000	100	1,428,370	N/A



1991

	Sales (MWh)	Sales (%)	Rate (\$/MWh)	Revenue (\$)	Revenue (%)	Number of Customers	Revenue/ Customer (\$)
<b>Wholesale</b>		16	36.66	224,391,000	6	N/A	N/A
<b>Retail</b>							
Residential	9,946,580	26	131.84	1,311,390,000	36	1,280,922	1,018
Commercial	5,138,412	13	122.20	627,851,000	17	137,446	4,587
Industrial	15,867,989	42	78.29	1,265,896,000	95	4,073	310,828
Pub Str & Hwy Lt	199,638	1	183.77	36,868,000	1	798	48,090
Other	827,558	2	75.81	62,738,000	2	3	20,812.667
<b>Retail Totals</b>	<b>32,077,575</b>	<b>84</b>	<b>103.01</b>	<b>3,304,463,000</b>	<b>92</b>	<b>1,433,240</b>	<b>2,308</b>
<b>Total Sales</b>	<b>38,164,546</b>	<b>100</b>	<b>92.48</b>	<b>3,528,854,000</b>	<b>98</b>	<b>1,433,240</b>	<b>N/A</b>
<b>Other</b>							
Revenues	N/A	N/A	N/A	68,638,000	2	N/A	N/A
Credits/Adjusts	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	<b>38,164,546</b>	<b>100</b>	<b>92.48</b>	<b>3,598,493,000</b>	<b>100</b>	<b>1,433,240</b>	<b>N/A</b>



# Electric Sales Overview (PECO Energy Co., Utilities):1

OCT 10 1997 11:21:02

OCT 10 '97 06:46PM MALATESTA HAWKE

	1992						
	Sales (MWh)	Sales (%)	Rate (\$/MWh)	Revenue (\$)	Revenue (%)	Number of Customers	Revenue/ Customer (\$)
<b>Wholesale</b>	<del>1,707</del>	21	32.12	274,972,000	8	N/A	N/A
<b>Retail</b>							
Residential	9,522,301	24	132.95	1,265,949,000	35	1,297,917	975
Commercial	5,222,052	13	125.14	653,476,000	18	137,933	4,738
Industrial	16,559,788	39	77.59	1,207,256,000	34	3,980	309,331
Pub Str & Hwy Lt	207,331	1	174.44	36,187,000	1	804	44,884
Other	<u>754,021</u>	<u>2</u>	<u>77.42</u>	<u>59,360,000</u>	<u>2</u>	<u>3</u>	<u>19,460,000</u>
<b>Retail Totals</b>	<b>31,264,491</b>	<b>79</b>	<b>103.03</b>	<b>3,221,222,000</b>	<b>80</b>	<b>1,440,637</b>	<b>2,236</b>
<b>Total Sales</b>	<b>39,824,199</b>	<b>100</b>	<b>87.79</b>	<b>3,496,184,000</b>	<b>88</b>	<b>1,440,637</b>	<b>N/A</b>
<b>Other</b>							
Revenue	N/A	N/A	N/A	71,889,000	2	N/A	N/A
Credits/Adjusts	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	<b>39,824,199</b>	<b>100</b>	<b>87.79</b>	<b>3,568,083,000</b>	<b>100</b>	<b>1,440,637</b>	<b>N/A</b>



# Electric Sales Overview (PECO Energy Co., Utilities):1

10/10/97 - 11:21:33

OCT 10 '97 06:46PM MALATESTA HAWKE

1993

	Sales (MWh)	Sales (%)	Rate (¢/MWh)	Revenue (\$)	Revenues (%)	Number of Customers	Revenue/ Customer (\$)
<b>Wholesale</b>	10,804,110	23	29.97	283,825,000	8	N/A	N/A
<b>Retail</b>							
Residential	10,263,552	24	127.98	1,312,580,000	37	1,304,978	1,006
Commercial	5,623,033	13	117.72	661,943,000	19	138,551	4,778
Industrial	15,713,712	37	73.01	1,147,258,000	32	3,768	304,638
Pub Sv & Hwy Lt	188,030	0	180.71	33,978,000	1	839	40,488
Other	581,733	1	81.29	47,288,000	1	3	15,762,667
<b>Retail Totals</b>	<b>32,370,080</b>	<b>77</b>	<b>88.95</b>	<b>3,203,027,000</b>	<b>80</b>	<b>1,448,137</b>	<b>2,212</b>
<b>Total Sales</b>	<b>42,174,170</b>	<b>100</b>	<b>82.91</b>	<b>3,488,853,000</b>	<b>88</b>	<b>1,448,137</b>	<b>N/A</b>
Other Revenues	N/A	N/A	N/A	78,383,000	2	N/A	N/A
Credits/Adjusts	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	<b>42,174,170</b>	<b>100</b>	<b>82.91</b>	<b>3,575,246,000</b>	<b>100</b>	<b>1,448,137</b>	<b>N/A</b>



# Electric Sales Overview (PECO Energy Co., Utilities):1

10/10/97 13:31:42

OCT 10 '97 05:47PM MALATESTA HAWKE

	1994						
	Sales (MWh)	Sales (%)	Rate (¢/MWh)	Revenues (\$)	Revenues (%)	Number of Customers	Revenue/ Customer (\$)
<b>Wholesale</b>	<del>1,100,000</del>	26	27.53	310,020,000	8	N/A	N/A
<b>Retail</b>							
Residential	10,412,404	24	127.50	1,327,534,000	37	1,312,278	1,012
Commercial	5,954,283	13	115.82	689,623,000	19	139,881	4,937
Industrial	15,822,248	36	72.08	1,128,024,000	31	3,587	313,918
Pub Str & Hwy LI	182,568	0	176.01	33,884,000	1	875	38,738
Other	<u>598,881</u>	<u>1</u>	<u>80.42</u>	<u>48,001,000</u>	<u>1</u>	<u>4</u>	<u>12,000,250</u>
<b>Retail Totals</b>	<b>32,778,384</b>	<b>74</b>	<b>98.39</b>	<b>3,225,076,000</b>	<b>80</b>	<b>1,458,436</b>	<b>2,214</b>
<b>Total Sales</b>	<b>44,257,832</b>	<b>100</b>	<b>80.01</b>	<b>3,541,096,000</b>	<b>88</b>	<b>1,456,436</b>	<b>N/A</b>
<b>Other Revenues</b>	N/A	N/A	N/A	52,467,000	1	N/A	N/A
<b>Credits/Adjusts</b>	N/A	N/A	N/A	0	0	N/A	N/A
<b>Totals</b>	<b>44,257,832</b>	<b>100</b>	<b>80.01</b>	<b>3,593,563,000</b>	<b>100</b>	<b>1,456,436</b>	<b>N/A</b>

TOTAL P. 08

P. 28/28



*midwest & northeast -  
nuclear outages -  
most*

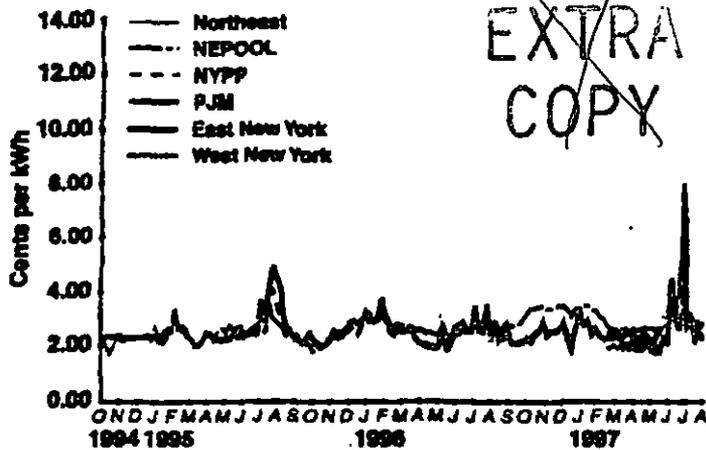
*weekly average prices*

*PECO - 8*

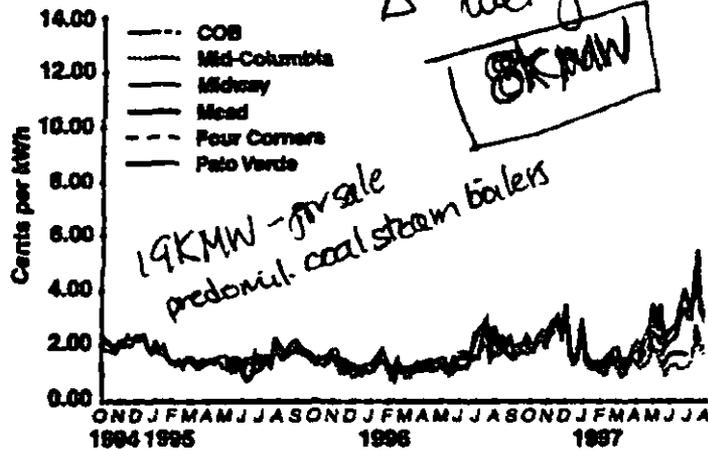
**PECO-9**

### On-peak Spot Electricity Prices

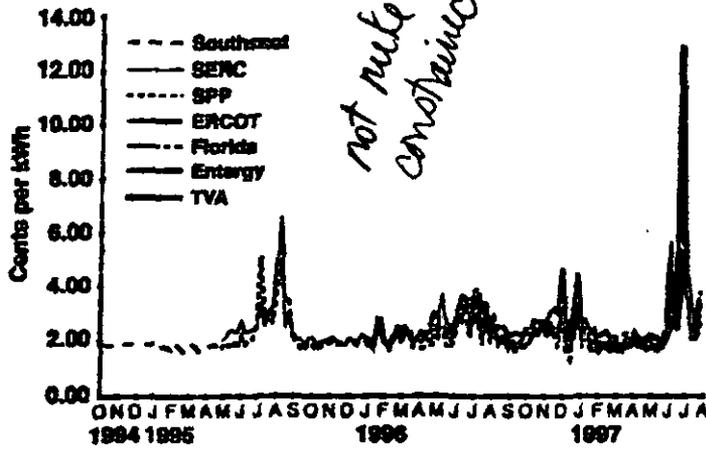
Northeast Market



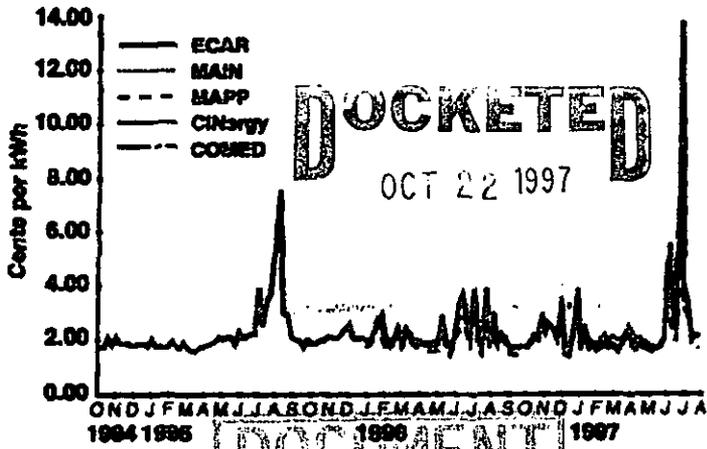
Western Market



Southern Market



Midwest Market



Source: Cambridge Energy Research Associates.  
81017-1028  
0997

*Opportunities to recover more than variable O&M have, so has propensity ... quite volatile at those times*

*Short margins (reserves) increase volatility in more expensive units*

- 37 -  
R-00973953  
R-00973953 (0001-0007)  
PECO Ex. 9 Phil. 10-15-97  
GST

PECO-10

Price Check

1:45 p.m. Mon Sept 29, 1997

(Called) Jim Potter LG+E 703-968-7200  
↳ by Fred Potter (no relation); Corp. Devel Svcs

~~EXTRA COPY~~

Quotes:  
Energy 1998: 2.6¢/kwh; increasing at 3% per year

Capacity 1998:  
"As high as \$4.00/kw/month"  
and "As low as 2.00/kw/month"

"Load Serving Entities" provide capacity in RT.

DOCUMENT FOLDER

	<u>Energy</u>
1998	2.60¢
1999	2.68
2000	2.76
2001	2.84
2002	2.93
2003	3.01

PROTHONOTARY'S OFFICE  
97 OCT 20 AM 9:06  
RECORDED

**DOCKETED**  
OCT 22 1997

R-00973953  
R-009739530001-6  
PECO EX-10  
Apt. 10-15-97  
GST

Price Check

~~EXTRA COPY~~

PECO-11

2:05 pm

Mon

Sept 29, 1997

call (Craig Baker w/ Fred Potter

AEP 614-223-27  
Corp. Rural Services

Year	Price	Notes
1999	3.40	¢
2000	3.50	
2001	3.60	
2002	3.70	
2003	3.80	

following "all in" prices

PROthonotary's OFFICE  
97 OCT 20 AM 9:06  
RECORDED

Craig: " Depends on when you ask — varies a great deal depending on perceptions regarding demand and available capacity

DOCUMENT FOLDER

Some would say you are high & some would say you are low

DOCKETED

OCT 22 1997

R-00973953  
R-00973953 (0001-0007)  
PECO EX. 11  
Phil. 10-15-97 GST

Price Check

1:00 pm

Weds

Oct 1, 1997

Rob Coulton  
Natural Resources Group (Electricity marketers  
New York City (Brokers)  
888-674-7693

~~EXTRA  
COPY~~

	<u>\$ Mwh</u>	(Bid/Ask)
1999	\$ 26.40	- 26.70
2000	26.80	- 27.20
2001	27.20	- 27.60
2002	27.60	- 28.00
2003	28.00	- 28.40

DOCUMENT  
FOLDER

DOCKETED  
OCT 22 1997

PROTHONOTARY'S OFFICE

97 OCT 20 AM 9:06

RECEIVED

R-00973953  
R-00973953 (0001-0007)  
PECO Ex. 12  
Phil 10-15-97

GST

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**PJM**

PECO-~~28~~  
13

The PJM Electricity Price Indexes are volume weighted averages, quoted in dollars per megawatt (\$/MW), that combine specifically-defined bilateral, wholesale, physical transactions inside PJM on the bulk power marketing system, which includes 230, 345 and 500 kV lines.

Index participants provide Dow Jones with their daily and monthly volume weighted average prices and total volume in megawatts (MW) for eligible electricity products sold in PJM, as well as with any purchases made from entities not contributing to the indexes.

Participants are asked to provide Dow Jones with PJM daily index data by 10 a.m. Eastern time, the day the transacted power moves. Although some indexes are calculated for 365 days year, publication occurs only on business days. If a holiday falls during the week, data is transmitted to Dow Jones on the first business day following a break.

**DOCKETED**

OCT 22 1997

**INDEX CATEGORIES**

**DAILY**

Firm On-peak  
Firm Off-peak

**MONTHLY**

Firm On-peak  
(Fall '97)

RECEIVED  
OCT 20 AM 9:07  
NOTARY'S OFFICE

**Firm Daily Indexes:** The firm indexes average power traded on a one day forward pre-scheduled basis. These transactions are limited to power traded in blocks of 16 hours for on-peak and blocks of 8 hours for off-peak, Monday through Friday. Transactions of any other size or transactions which call for delivery for more than one day are not included in the calculations for this index. Data for the daily indexes are reported in megawatts (MW) per hour.

**Monthly Firm Indexes:** Each business day, Dow Jones will calculate and publish the weighted average price of one month forward transactions that call for delivery of firm power throughout the next calendar month. These transactions, commonly referred to as 5 X 16 monthly contracts, are comprised of 16 hour blocks, delivered Monday through Friday, excluding NERC holidays. Transactions which call for delivery for more than one month are not included in calculations for this index. Data for the monthly indexes are reported in megawatts (MW) per hour.

**TERMINOLOGY**

**DOCUMENT  
FOLDER**

**On-peak Hours:** Hours ending 0800 - 2300 Eastern prevailing time (7 a.m. - 11 p.m.), Monday through Friday except NERC holidays.

**Off-peak Hours:** Hours ending 2400-0700 Eastern prevailing time (11 p.m. - 7 a.m.), Monday through Friday except NERC holidays.

PJM Definition

Revised 9/8/97

R-00973953, R-00973953 (0001-0007)  
PECO EX. 13  
PHIL. 10-15-97 GST

**NOTE:** Saturday, Sunday and NERC holidays are not included in the calculations for any of the PJM indexes.

**Firm Energy:** Monthly firm energy and daily firm energy are defined as energy which is financially firm and is backed by liquidating damages.

## INDEX DATES

- All PJM indexes are calculated Monday through Friday, excluding NERC holidays.

**Daily Indexes:** INDEX DATE = POWER DELIVERY DATE

For example, prescheduled power transacted on Monday for delivery on Tuesday is averaged to form Tuesday's index.

**Monthly Indexes:** INDEX DATE = TRADE DATE

For example, all power transacted on March 18<sup>th</sup> for delivery on a 5 X 16 basis throughout the month of April is averaged together to form the April monthly index for March 18<sup>th</sup>. Any 5 X 16 monthly transactions entered into on the 19<sup>th</sup> would be averaged to obtain the March 19<sup>th</sup> April monthly index.

## SAMPLE CALCULATIONS

- Contributor X:**
- 1) Sells 50 MW per hour for 16 hours @ \$16.50 to Company A
  - 2) Sells 100 MW per hour @ \$16.25 for 16 hours to Company B and
  - 3) Sells 25 MW per hour @ \$15.00 for 24 hours to Company C.

**Calculations for Contrib X:**  $\frac{(50 \times 16.50) + (100 \times 16.25)}{150 \text{ MW}} = 150 \text{ MW @ } \$16.33 \text{ per MW}$

Transaction 3) is not included because 24 hour block trades are not included in this index.

**Calculations for Dow Jones:**

Data from Contributor X (see above): 150 MW @ \$16.33 per MW

Data from Contributor Y: 400 MW @ \$17.00 per MW

$\text{Index} = \frac{(150 \times 16.33) + (400 \times 17.00)}{550 \text{ MW}} = 550 \text{ MW @ } \$16.817 \text{ per MW}$

**We report to you:**

Index (\$/MW)	Total MW per hour	Total megawatt-hours (= Total MW per hour X 16)
\$16.82	550	8800

*If you have any questions or if any information on this sheet is not expressed clearly, please call Kathy Farley at (201) 938-2406 or Ed Silliere at (201) 938-2057.*



## DETERMINING INDEX DATES

### Daily Indexes: INDEX DATE = POWER DELIVERY DATE

The date on a daily index corresponds to the date the power is delivered. For example, prescheduled power transacted on Monday for delivery on Tuesday is averaged to form Tuesday's index. For indexes that include real-time power, Monday's prescheduled transactions are combined with Tuesday's real-time transactions to form Tuesday's index.

### Monthly Indexes: INDEX DATE = TRADE DATE

Monthly indexes reflect all power transacted on a given day for delivery on a 6 X 16 basis (5 X 16 for PJM) throughout the following month. For example, power traded on March 18<sup>th</sup> for 6 X 16 delivery in April is averaged together to form the April monthly index for March 18<sup>th</sup>. Any 6 X 16 monthly transactions entered into on the 19<sup>th</sup> would be averaged to obtain the March 19<sup>th</sup> April monthly index. Monthly indexes will be calculated for business days only.

## CALCULATING THE INDEXES

All indexes are volume weighted averages of bilateral, wholesale transactions which take place at defined delivery points. Contributors report all sales transactions, regardless of the counterparty's index status, and any purchases made from entities not participating in the index.

**FORMULA:** Index =  $\frac{\text{SUM (Average Contributor Price X Total Volume per Contributor)}}{\text{SUM (Total Volume per Contributor)}}$

## SAMPLE CALCULATIONS - NON-BLOCK INDEX

All Dow Jones non-block indexes include both pre-scheduled and real-time transactions. Since these transactions may have a variety of durations, total transaction volume is reported to Dow Jones in megawatt-hours. Currently, all Dow Jones non-firm indexes and the Mid-Columbia indexes fall into this category.

### Sample Data for Contributor X:

- 1) On Monday, Contrib. X sells 800 MWH of 1-day pre-scheduled off-peak power @ \$21.00/MWH to A
- 2) That same day, X also sells 2400 MWH @ \$17.50/MWH as part of a 24 hour transaction
- 3) On Tues., X buys 40 MWH of real-time, off-peak power @ \$25.00/MWH from a non-participant.

Calculations for Contrib. X:  $(800 \text{ MWH} \times \$21.00/\text{MWH}) + (40 \text{ MWH} \times \$25.00/\text{MWH}) =$   
\$21.19/MWH

840 MWH

Transaction 2) is not included because 24-hour block trades are not included in these indexes.

Calculations for Dow Jones Daily Off-Peak Index:

Data from Contributor X (see above): 840 MWH @ \$21.19/MWH  
Data from Contributor Y: 1200 MWH @ \$20.23/MWH

$$\text{Index} = \frac{(840 \text{ MWH} \times \$21.19/\text{MWH}) + (1200 \text{ MWH} \times \$20.23/\text{MWH})}{2040 \text{ MW}} = 2040 \text{ MW} @ \$20.63/\text{MWH}$$

## SAMPLE CALCULATIONS DAILY BLOCK INDEX

Block indexes are calculated using the same weighted average formula used to calculate the non-block indexes, but reflect a different reporting method and are expressed in units of \$/MW instead of in \$/MWH.

### Sample Data for Contributor X:

- 1) Sells 50 MW per hour for 16 on-peak hours @ \$16.50/MW to Company A
- 2) Sells 100 MW per hour @ \$16.25/MW for 16 on-peak hours to Company B and
- 3) Sells 25 MW per hour @ \$15.00/MW for 24 hours to Company C.

### Daily On-Peak Calculations for Contrib. X:

$$\text{Weighted Average Price} = \frac{(50 \text{ MW} \times \$16.50/\text{MW}) + (100 \text{ MW} \times \$16.25/\text{MW})}{150 \text{ MW}} = 150 \text{ MW} @ \$16.33 \text{ per MW}$$

150 MW

Transaction 3) is not included because 24-hour block trades are not included in these indexes.

### Calculations for Dow Jones Daily On-Peak Index:

Data from Contributor X (see above): 150 MW @ \$16.33 per MW  
Data from Contributor Y: 400 MW @ \$17.00 per MW

$$\text{Index} = \frac{(150 \text{ MW} \times \$16.33/\text{MW}) + (400 \text{ MW} \times \$17.00/\text{MW})}{550 \text{ MW}} = 550 \text{ MW} @ \$16.82 \text{ per MW}$$

550 MW

## SAMPLE CALCULATIONS MONTHLY INDEX

### Sample Data for Contributor X:

- 1) On April 10<sup>th</sup>, X enters into a 6 X 16 forward contract with A whereby X delivers 50 MW per hour during on-peak hours in May. They agree on a price of \$17.25/MW.
- 2) That same day, X enters into another contract to deliver 25 MW of power to B for 24 hours a day during the month of May. The price for this agreement is \$11.00/MH.
- 3) On April 11<sup>th</sup>, X purchases 25 MW per hour of on-peak at a price of \$18.00/MW. The power is purchased from a non-contributor and will be delivered on a 6 X 16 basis throughout the month of May.
- 4) Also on the 11<sup>th</sup>, X enters into another monthly forward 6 X 16 agreement for May delivery. This time they sell 50 MW of on-peak at \$18.30/MW.

### Monthly Firm On-Peak Calculations for Contrib. X:

**April 10<sup>th</sup>:** Report 50 MW @ \$17.25 for the April 10<sup>th</sup> monthly peak index. The 24-hour transaction in 2) is not included in this index since the power does not conform to on-peak requirements.

$$\text{April 11<sup>th</sup>: } (25 \text{ MW} \times \$18.00/\text{MW}) + (50 \text{ MW} \times \$18.30/\text{MW}) = 75 \text{ MW} @ \$18.20 \text{ per MW}$$

MW

75 MW

**Calculations for Dow Jones Monthly Index: April 10<sup>th</sup>**

Data from Contributor X (see above): 50 MW @ \$17.25 per MW

Data from Contributor Y: 400 MW @ \$18.00 per MW

**May Index for April 10<sup>th</sup> = (50 MW X \$17.25/MW) + (400 MW X \$18.00/MW) = 450 MW  
@ \$17.92**

450 MW

**Calculations for Dow Jones Monthly Index: April 11<sup>th</sup>**

Data from Contributor X (see above): 75 MW @ \$18.20 per MW

Data from Contributor Z: 250 MW @ \$18.00 per MW

**May Index for April 11<sup>th</sup> = (75 MW X \$18.20/MW) + (250 MW X \$18.00/MW) = 325 MW  
@ \$18.05**

325 MW

*Please address questions or comments to Kathy Farley (201) 938-2408 or Ed Silfere (2010) 938-2057.*

PJCO-74  
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DJ-PJM

**DOW JONES**

Sept. 1997

N/Q = No Quote

DJ PJM Index

S = Surveyed Data

R = Revised Data

DATE

	Firm on-peak	Net Chng.	Mw
30-Sep-97	0	0.00	0
29-Sep-97	0	0.00	0
28-Sep-97	0	0.00	0
27-Sep-97	0	0.00	0
26-Sep-97	0	0.00	0
25-Sep-97	19.36	0.41	600
24-Sep-97	18.95	-0.44	500
23-Sep-97	19.39	-2.00	1,150
22-Sep-97	21.39	-10.13	900
21-Sep-97	0	0.00	0
20-Sep-97	0	0.00	0
19-Sep-97	31.52	-1.67	900
18-Sep-97	33.19	6.31	400
17-Sep-97	26.88	0.68	700
16-Sep-97	26.20	0.84	700
15-Sep-97	25.36	3.42	1000
14-Sep-97	0	0.00	0
13-Sep-97	0	0.00	0
12-Sep-97	21.94	2.89	400
11-Sep-97	19.08	-0.89	600
10-Sep-97	19.97	-1.40	450
09-Sep-97	21.37	2.28	850
08-Sep-97	19.09	1.84	1000
07-Sep-97	0	0.00	0
06-Sep-97	0	0.00	0
05-Sep-97	17.25	-1.07	400
04-Sep-97	18.32	-2.02	650
03-Sep-97	20.34	-8.75	1150
02-Sep-97	29.09	5.58	1450
01-Sep-97	0	0.00	0

**August 1997** N/Q = No Quote

DJ PJM Index

S = Surveyed Data

R = Revised Data

**DATE**

	Firm on-peak	Net Chng.		Mw
31-Aug-97	0	0.00		0
30-Aug-97	0	0.00		0
29-Aug-97	23.51	1.51		850
28-Aug-97	22.00	0.27		800
27-Aug-97	21.73	-0.97		650
26-Aug-97	22.70	-0.61		500
25-Aug-97	23.31	4.66		450
24-Aug-97	N/Q	0.00		0
23-Aug-97	N/Q	0.00		0
22-Aug-97	18.85	-1.10		250
21-Aug-97	19.75	-1.65		550
20-Aug-97	21.40	-2.06		700
19-Aug-97	23.46	-10.00		550
18-Aug-97	33.46	10.04		600
17-Aug-97	N/Q	0.00		0
16-Aug-97	N/Q	0.00		0
15-Aug-97	23.42	-0.56		300
14-Aug-97	23.98	-1.16		525
13-Aug-97	25.14	-0.09		900
12-Aug-97	25.23	-3.22		700
11-Aug-97	28.45	6.74	REVISED	1200
10-Aug-97	N/Q	0.00		0
9-Aug-97	N/Q	0.00		0
8-Aug-97	21.71	0.80		700
7-Aug-97	20.91	-0.67		550
6-Aug-97	21.58	-1.31		450
5-Aug-97	22.89	-3.53		550
4-Aug-97	26.42	-1.02		300
3-Aug-97	N/Q	0.00		0
2-Aug-97	N/Q	0.00		0
1-Aug-97	27.44	4.36		1850

July 1997

N/Q = No Quote

DJ PJM Index

S = Surveyed Data

R = Revised Data

DATE

DATE	Firm on-peak	Net Chng.		Mw
31-Jul-97	23.08	-0.99		150
30-Jul-97	24.07	-2.09		1700
29-Jul-97	26.16	-22.34		1550
28-Jul-97	48.50	18.75		50
27-Jul-97	N/Q	0.00		0
26-Jul-97	N/Q	0.00		0
25-Jul-97	29.75	5.31		250
24-Jul-97	24.44	-2.59		200
23-Jul-97	27.03	-1.57		1250
22-Jul-97	28.60	-21.90		1500
21-Jul-97	50.50	-47.00		200
20-Jul-97	N/Q	0.00		0
19-Jul-97	N/Q	0.00		0
18-Jul-97	97.50	-18.50	SURVEY	0
17-Jul-97	116.00	11.00	SURVEY	0
16-Jul-97	105.00	44.65		100
15-Jul-97	60.35	28.06		350
14-Jul-97	32.29	6.63		350
13-Jul-97	N/Q	0.00		0
12-Jul-97	N/Q	0.00		0
11-Jul-97	25.66	-2.17		2050
10-Jul-97	27.83	0.55		450
9-Jul-97	27.28	-0.30		1,600
8-Jul-97	27.58	-2.64		1,700
7-Jul-97	30.22	1.82		1,600
6-Jul-97	N/Q	0.00		0
5-Jul-97	N/Q	0.00		0
4-Jul-97	N/Q	0.00		0
3-Jul-97	28.40	1.28		1,000
2-Jul-97	27.12	-1.53		2,000
1-Jul-97	28.65	-27.35		600

June 1997

DJ PJM Index

N/Q = No Quote

S = Surveyed Data

R = Revised Data

DATE

	Firm on-peak	Net Chng.	Mw
30-Jun-97	56.00	17.20	150
<del>29-Jun-97</del>	N/Q	0.00	0
<del>28-Jun-97</del>	N/Q	0.00	0
27-Jun-97	38.80	-14.53	250
26-Jun-97	53.33	-10.67	450
25-Jun-97	64.00	25.19	650
24-Jun-97	38.81	12.02	800
23-Jun-97	26.79	0.87	700
<del>22-Jun-97</del>	N/Q	0.00	0
<del>21-Jun-97</del>	N/Q	0.00	0
20-Jun-97	25.92	4.81	1,950
19-Jun-97	21.11	1.91	1,100
18-Jun-97	19.20	-0.46	1200
17-Jun-97	19.66	-1.34	900
16-Jun-97	21.00	-0.38	50
<del>15-Jun-97</del>	N/Q	0.00	0
<del>14-Jun-97</del>	N/Q	0.00	0
13-Jun-97	21.38	-4.56	1000
12-Jun-97	25.94	0.52	950
11-Jun-97	25.42	1.68	700
10-Jun-97	23.74	6.12	900
9-Jun-97	17.62	1.21	1,100
<del>8-Jun-97</del>	N/Q	0.00	0
<del>7-Jun-97</del>	N/Q	0.00	0
6-Jun-97	16.41	-0.60	450
5-Jun-97	17.01	-0.40	550
4-Jun-97	17.41	-0.27	775
3-Jun-97	17.68	-1.28	650
2-Jun-97	18.96	1.89	650
<del>1-Jun-97</del>	N/Q	0.00	0

**May 1997**

DJ PJM Index

N/Q = No Quote

S = Surveyed Data

R = Revised Data

**DATE**

~~31-May-97~~  
 30-May-97  
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~~4-May-97~~  
~~3-May-97~~  
 2-May-97  
 1-May-97

Firm on-peak	Net Chng.	Mw
N/Q		
17.07	-0.22	530
17.29	-0.11	500
17.40	-1.92	430
19.32	1.26	950
N/Q	0.00	
N/Q	0.00	
N/Q	0.00	
18.06	-2.74	600
20.80	-0.88	475
21.68	-0.23	1200
21.91	-0.06	950
21.97	1.20	700
N/Q		
N/Q		
20.77	-0.12	625
20.89	-0.94	600
21.83	0.30	825
21.53	0.07	625
21.46	-0.09	600
	REVISED	
N/Q		
N/Q		
21.55	-0.39	800
21.94	-0.77	1,050
22.71	-1.67	900
24.38	0.50	1,400
23.88	3.10	1,700
N/Q		
N/Q		
20.78	0.58	290
20.20	1.20	300

**April 1997**

N/Q = No Quote

DJ PJM Index

S = Surveyed Data

R = Revised Data

DATE	Firm on-peak	Net. Chng	Volume
30-Apr-97	\$19.00	-0.50	90
29-Apr-97	\$19.50	-1.06	535
28-Apr-97	\$20.56	-0.44	350
27-Apr-97	N/Q		
26-Apr-97	N/Q		
25-Apr-97	\$21.00	0.15	50
24-Apr-97	\$20.85	0.28	685
23-Apr-97	\$20.57	0.06	560
22-Apr-97	\$20.51	-1.41	860
21-Apr-97	\$21.92	-0.83	300
20-Apr-97	N/Q		
19-Apr-97	N/Q		
18-Apr-97	\$22.75	0.25	200
17-Apr-97	\$22.50	0.62	250
16-Apr-97	\$21.88	-0.50	1200
15-Apr-97	\$22.38	1.98	950
14-Apr-97	\$20.40	-2.51	525
13-Apr-97	N/Q		
12-Apr-97	N/Q		
11-Apr-97	\$22.91	-0.17	1025
10-Apr-97	\$23.08	4.38	1050
9-Apr-97	\$18.70	0.60	1050
8-Apr-97	\$18.10	0.39	300
7-Apr-97	\$17.71	-0.74	525
6-Apr-97	N/Q		
5-Apr-97	N/Q		
4-Apr-97	\$18.45	-1.22	600
3-Apr-97	\$19.67	-2.52	650
2-Apr-97	\$22.19	0.21	1050
1-Apr-97	\$21.98	0.33	825

**March 1997**

N/Q = No Quote

DJ PJM Index

S = Surveyed Data

R = Revised Data

DATE	Firm on-peak	Net. Chng	Volume
31-Mar-97	\$21.65	0.00	725
30-Mar-97	N/Q		
29-Mar-97	N/Q		
28-Mar-97	\$21.65	-0.99	725
27-Mar-97	\$22.64	-0.51	300
26-Mar-97	\$23.15	-0.27	500
25-Mar-97	\$23.42	0.54	775
24-Mar-97	\$22.88	0.88	920
23-Mar-97	N/Q		
22-Mar-97	N/Q		
21-Mar-97	\$22.00	-0.80	800
20-Mar-97	\$22.80	-1.01	1005
19-Mar-97	\$23.81	-1.05	1075
18-Mar-97	\$24.86	0.08	1125
17-Mar-97	\$24.78	2.38	1025
16-Mar-97	N/Q		
15-Mar-97	N/Q		
14-Mar-97	\$22.40	-0.05	950
13-Mar-97	\$22.45	-0.53	950
12-Mar-97	\$22.98	-0.23	825
11-Mar-97	\$23.21	-0.81	850
10-Mar-97	\$24.02	0.10	125
9-Mar-97	N/Q		
8-Mar-97	N/Q		
7-Mar-97	\$23.92	0.41	900
6-Mar-97	\$23.51	-0.56	300
5-Mar-97	\$24.07	0.55	470
4-Mar-97	\$23.52	2.63	520
3-Mar-97	\$20.89	0.44	820

2-Mar-97	N/Q			
1-Mar-97	N/Q			

**Feb. 1997** N/Q = No Quote  
 DJ PJM Index S = Surveyed Data R = Revised Data

DATE	Firm on-peak	Net. Chng	Volume
28-Feb-97	\$20.45	-0.89	250
27-Feb-97	\$21.34	-0.74	750
26-Feb-97	\$22.08	-2.36	750
25-Feb-97	\$24.44	0.12	650
24-Feb-97	\$24.32	2.27	850
23-Feb-97	N/Q		
22-Feb-97	N/Q		
21-Feb-97	\$22.05	-0.51	650
20-Feb-97	\$22.56	0.32	1000
19-Feb-97	\$22.24	-3.85	550
18-Feb-97	\$26.09	0.00	475
17-Feb-97	\$26.09	-0.63	475
16-Feb-97	N/Q		
15-Feb-97	N/Q		
14-Feb-97	\$26.72	-1.99	1375
13-Feb-97	\$28.71	2.32	1050
12-Feb-97	\$26.39	0.35	750
11-Feb-97	\$26.04	0.95	850
10-Feb-97	\$25.09	-0.13	650
9-Feb-97	N/Q		
8-Feb-97	N/Q		
7-Feb-97	\$25.22	0.66	400
6-Feb-97	\$24.56	4.18	400
5-Feb-97	\$20.38	-4.15	550
4-Feb-97	\$24.53	-4.17	595
3-Feb-97	\$28.70	-2.00	350
2-Feb-97	N/Q		
1-Feb-97	N/Q		

**Jan. 1997** N/Q = No Quote  
 DJ PJM Index S = Surveyed Data R = Revised Data

DATE	Firm on-peak	Net. Chng	Volume
31-Jan-97	\$30.70	-0.20	1125
30-Jan-97	\$30.90	0.95	400

PJMSHEET

29-Jan-97	\$29.95	2.41		75
28-Jan-97	\$27.54	-1.85		75
27-Jan-97	\$29.39	-2.60		1300
<del>26-Jan-97</del>	N/Q			
<del>25-Jan-97</del>	N/Q			
24-Jan-97	\$26.79	1.09		1300
23-Jan-97	\$25.70	0.20		1650
22-Jan-97	\$25.50	-1.70		1770
21-Jan-97	\$27.20	0		1870
20-Jan-97				