

Retail Electricity Choice Activity Report 2016



July 2017

Technical Utility Services

Paul T. Diskin, *Director*

Prepared by Charles Covage

Policy and Planning



Published by:
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265
www.puc.pa.gov

PAPowerSwitch 
Pennsylvania Public Utility Commission

www.PAPowerSwitch.com

Table of Contents

I.	Executive Summary	1
II.	Electric Generation Supplier (EGS) Data & Trends	3
	A. Number of Customer Accounts.....	4
	1. Residential and Non-Residential	4
	2. Small, Medium and Large Non-Residential	7
	B. MWh Sales	10
	1. Residential and Non-Residential	10
	2. Small, Medium and Large Non-Residential	13
III.	Time-Varying Rates	14
	A. Time of Use	14
	1. Number of Electric Distribution Company (EDC) Customer Accounts -	
	a. Residential/Non-Residential	15
	2. EDCs Customer Account MWh Sales -	
	a. Residential/Non-Residential	15
	B. Hourly/Real-Time Priced.....	16
	1. Number of EDCs Customer Accounts -	
	a. Residential/Non-Residential	16
	b. Small, Medium and Large Non-Residential.....	17
	2. EDC Customer Account MWh Sales -	
	a. Residential/Non-Residential	17
	b. Small, Medium and Large Non-Residential.....	18
IV.	Number of Active EGSs	19
V.	EGS Programs	23
VI.	Appendix - Definitions	35

I. Executive Summary

This report has been prepared to provide access to data reported to the Commission by electricity market suppliers. The information contained within this report is provided in a manner that doesn't compromise the confidentiality of company data while also providing it in a useful format. This report illustrates short-term data trends that may appear but does not provide any market analysis beyond what is apparent in the data; additionally, the Commission does not speculate as to the possible reasons for any trends.

Section 54.203 of the PA Code requires electric distribution companies (EDCs) to file quarterly reports on retail sales activity of electric generation suppliers (EGSs) operating in their service territories. These filings provide aggregate EGS market-share data for the number of customer accounts and megawatt-hour (MWh) sales. As of December 31, 2016, the EDCs' reports indicated a total of 113 active EGSs were operating in Pennsylvania.

Section 54.203 of the PA Code also requires active EGSs to file an annual report by April 30 for the previous calendar year. The data contained specifically within Section V of this report is based on information submitted by active EGSs. Of the 113 active EGSs, identified by the EDCs as having served load within their service territories, 96 (85%) have filed reports with the Commission. The Bureau of Technical Utility Services (TUS) is making efforts to ensure reporting by all active EGSs; reporting has increased from 61% in 2014 to the current 85%.

The EGS filings provide aggregate data on the number of accounts served, as well as customer accounts that participate in various programs. These programs include flat and time-varying rates, fixed-term contracts, green power and curtailable contract information, as well as information on which EGSs are providing supplier billing services. Due to confidentiality concerns, the data is reported in the aggregate and does not disclose individual EGS market shares.

Overview

Highlights as of Dec. 31, 2016:

Number of Customer Accounts Served by EGSs

- 2,090,997 of 5,763,623 total accounts (36 percent)
 - 1,756,048 of 5,061,250 residential accounts (35 percent)
 - 334,949 of 702,373 non-residential accounts (48 percent)
 - Non-residential: 263,949 small; 65,715 medium; 5,285 large

MWWhs Served by EGSs

- 79,113,811 of 116,053,323 total MWWhs (68 percent)
 - 14,073,753 of 41,587,584 residential MWWhs (34 percent)
 - 65,040,058 of 74,465,739 non-residential MWWhs (87 percent)
 - Non-residential: 6,890,917 small; 15,954,182 medium; 42,194,959 large

Total Number of EDCs' Time of Use (TOU)

Residential Customer Accounts and MWWhs

- 328 TOU accounts of 5,763,623 total accounts (less than 1 percent)
- 1,519 TOU MWWhs of 116,053,323 total MWWhs (less than 1 percent)

Total Number of EDCs' Hourly/Real-Time Priced (RTP)

Non-Residential Customer Accounts and MWWhs

- 12,195 RTP accounts of 5,763,623 total accounts (less than 1 percent)
- 45,394,823 RTP MWWhs of 116,053,323 total MWWhs (39 percent)

II. Electric Generation Supplier Data and Trends

This section provides information on trends in EGS customer accounts and MWh sales during 2016. In all cases, “Customer Accounts” data is reported as of Dec. 31; MWh sales is the sum of the quarterly reported data during the year. Below is data presented for residential and non-residential (includes small, medium and large non-residential) classes.

**Table 1 – Number of Customer Accounts and MWh Sales: 2014-2016
Residential and Non-Residential**

	RESIDENTIAL		NON-RESIDENTIAL		TOTAL	
	Customer Accounts	MWh Sales	Customer Accounts	MWh Sales	Customer Accounts	MWh Sales
Total Served by EGSs- 2016	1,756,048	14,073,753	334,949	65,040,058	2,090,997	79,113,811
Total Served by EGSs- 2015	1,722,757	14,519,632	322,190	65,688,669	2,044,947	80,208,301
Total Served by EGSs- 2014	1,787,276	15,846,102	313,978	65,473,624	2,101,254	81,319,726
Total Served by EGSs and EDCs- 2016	5,061,250	41,587,584	702,373	74,465,739	5,763,623	116,053,323
Total Served by EGSs and EDCs- 2015	5,034,270	42,647,998	697,426	76,390,649	5,731,696	119,038,647
Total Served by EGSs and EDCs- 2014	5,017,059	42,014,142	696,101	76,028,284	5,713,160	118,042,426
Percent Served by EGSs- 2016	35	34	48	87	36	68
Percent Served by EGSs- 2015	34	34	46	86	36	67
Percent Served by EGSs- 2014	36	38	45	86	37	69

Figure 1. Trends Total Customer Accounts Served by EGSs: 2014-2016

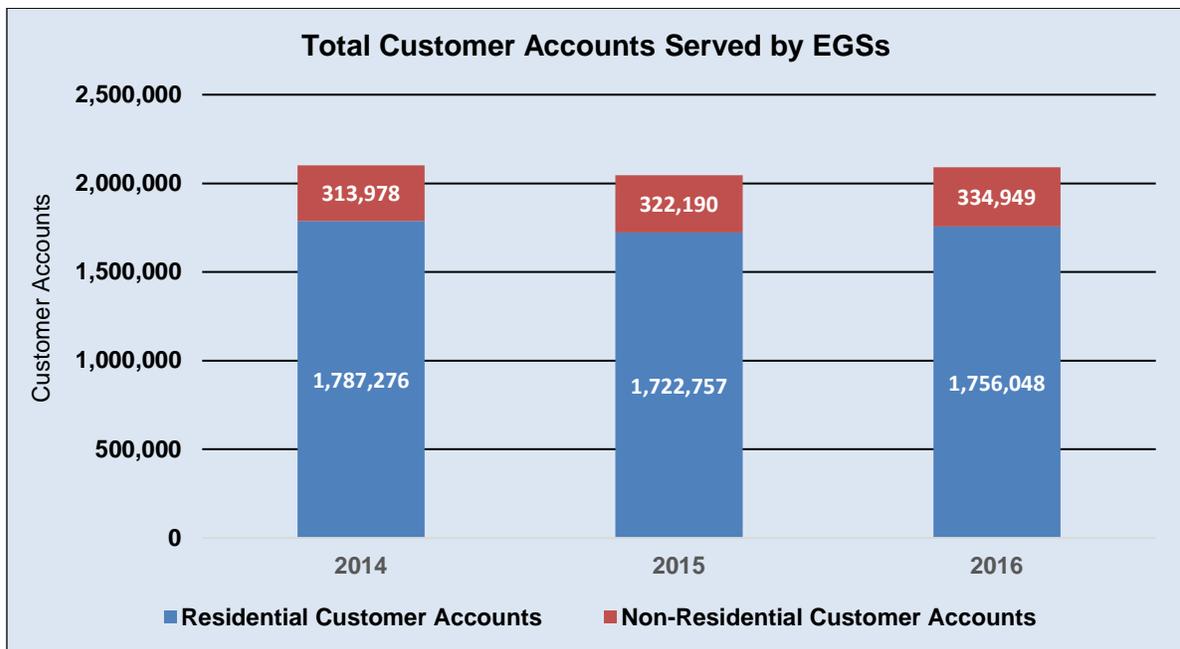
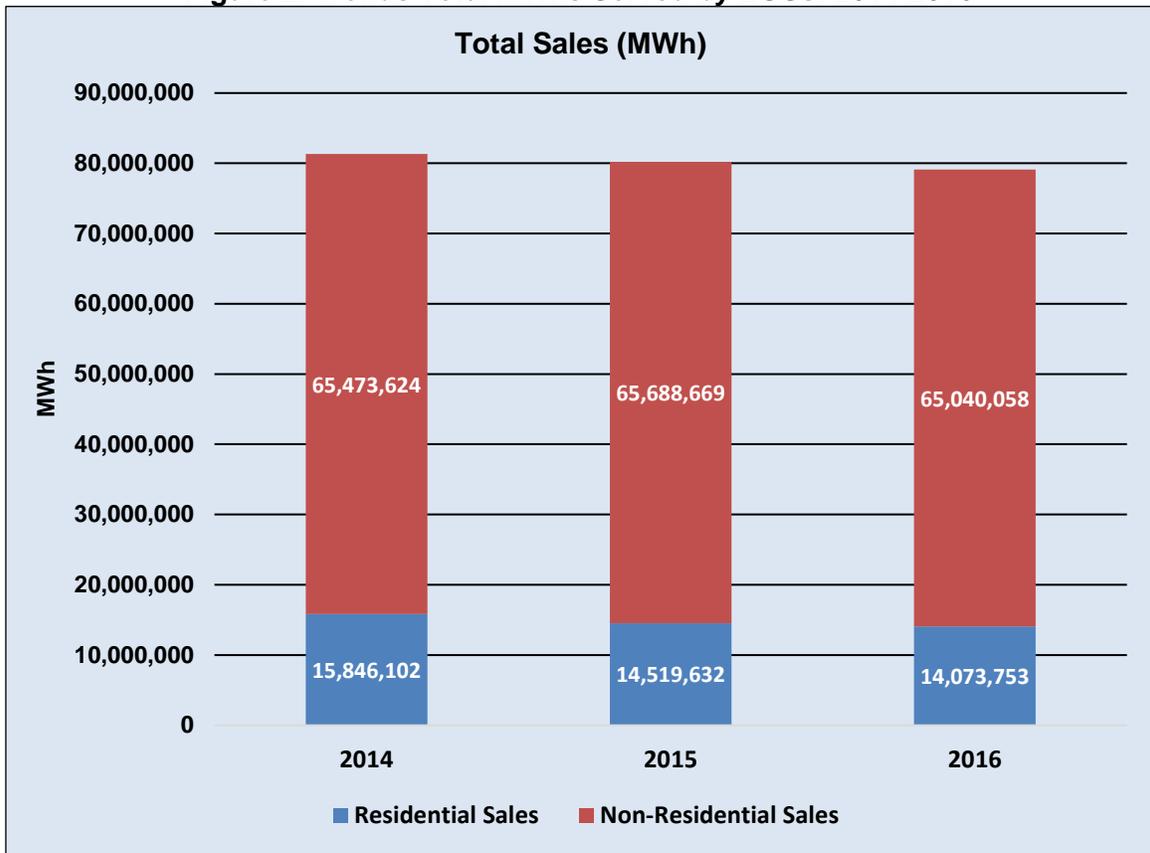


Figure 2. Trends Total MWhs Served by EGSs: 2014-2016



A. Number of Customer Accounts

1. Residential and Non-Residential

As noted in Table 1, in 2016 the percentage of EGS customer accounts was 36 percent. EGS customer accounts in the residential and non-residential classes increased 1 percent and 2 percent, respectively. The data in Table 2 further indicates that the relative percentage of total EGS customers in 2016 was relatively static.

**Table 2 – Number of EGS Customer Accounts: 2016
Residential and Non-Residential**

<i>Year and Quarter</i>	<i>Residential</i>	<i>Non-Residential</i>	<i>Total</i>
2015	1,722,757	322,190	2,044,947
2016	1,756,048	334,949	2,090,997
1st Quarter 2016	1,740,364	328,795	2,069,159
2 nd Quarter 2016	1,744,328	333,680	2,078,008
3 rd Quarter 2016	1,745,445	331,813	2,077,258
4 th Quarter 2016	1,756,048	334,949	2,090,997

**Table 3 - Number of Customer Accounts by EDC Service Territories: 2016
Residential and Non-Residential**

<i>EDC</i>	<i>Number Residential Accounts</i>			<i>Number Non-Residential Accounts</i>			<i>Total Number Accounts</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	12	5,810	0	87	1,171	7	99	6,981	1
Duquesne	164,916	531,084	31	26,140	61,893	42	191,056	592,977	32
UGI	338	55,249	1	837	8,539	10	1,175	63,788	2
Met-Ed	172,351	496,825	35	32,549	67,857	48	204,900	564,682	36
Penelec	154,408	497,514	31	37,495	86,279	43	191,903	583,793	33
Penn Power	40,121	143,892	28	9,844	20,900	47	49,965	164,792	30
PECO	504,035	1,456,618	35	84,535	166,132	51	588,570	1,622,750	36
Pike	1,782	3,785	47	439	992	44	2,221	4,777	47
PPL	543,484	1,244,139	44	103,375	184,487	56	646,859	1,428,626	45
Wellsboro	0	5,118	0	23	1,198	2	23	6,316	0
West Penn	174,601	621,216	28	39,625	102,925	38	214,226	724,141	30
Total	1,756,048	5,061,250	35	334,949	702,373	48	2,090,997	5,763,623	36

**Figure 3 - Number of EGS Customer Accounts - 2016
Top Three EDC Territories with EGS Customer Accounts
Residential and Non-Residential**

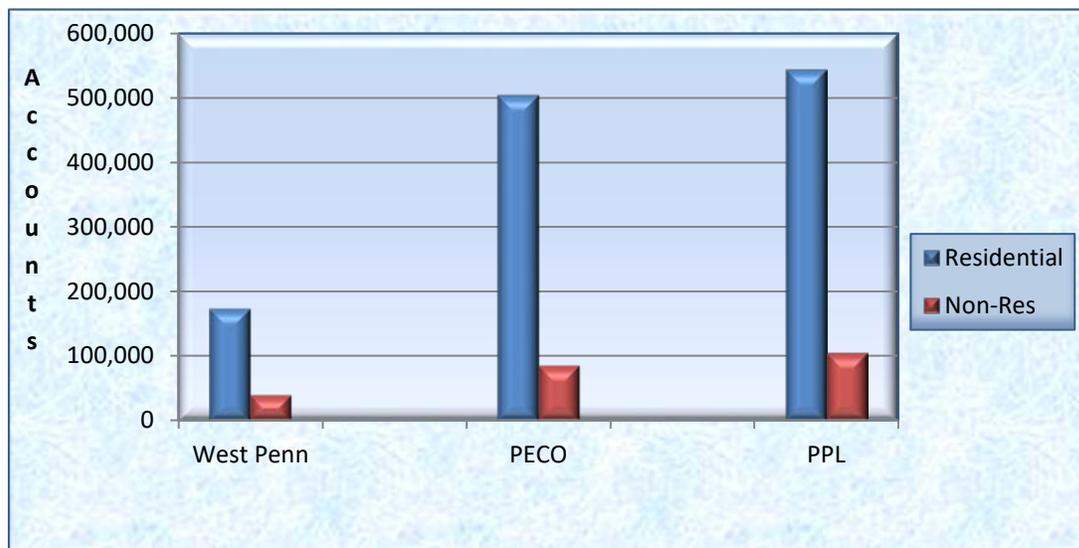
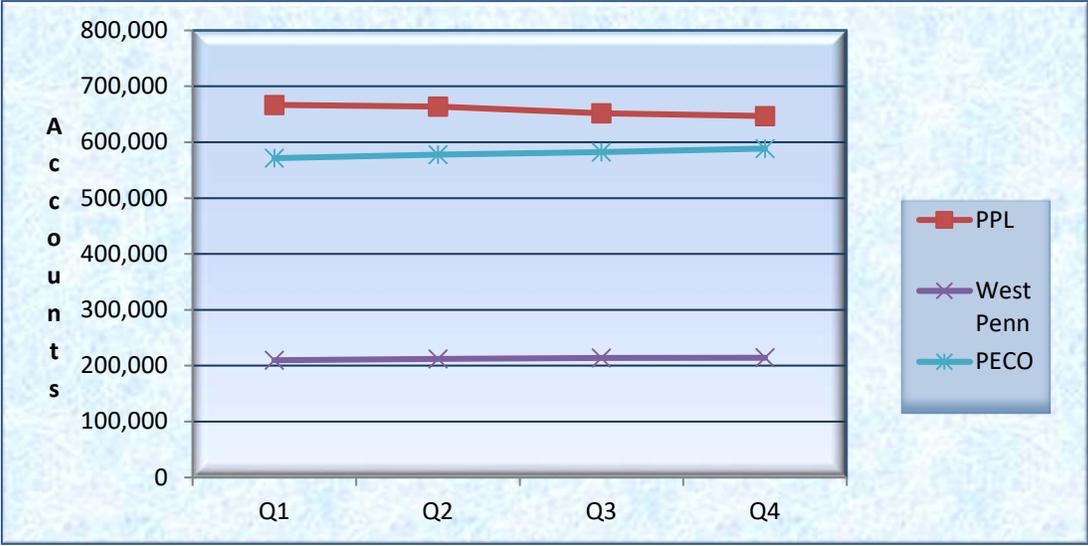


Figure 4 - EGS Customer Accounts: Quarterly Trends - 2016
Top Three EDC Territories with EGS Customer Accounts
Residential and Non-Residential



As noted in Figure 3, PPL Electric Utilities Corp. (PPL), PECO Energy Company (PECO) and West Penn Power Company (West Penn), respectively, had the highest number of EGS customer accounts, predominantly in the residential class.

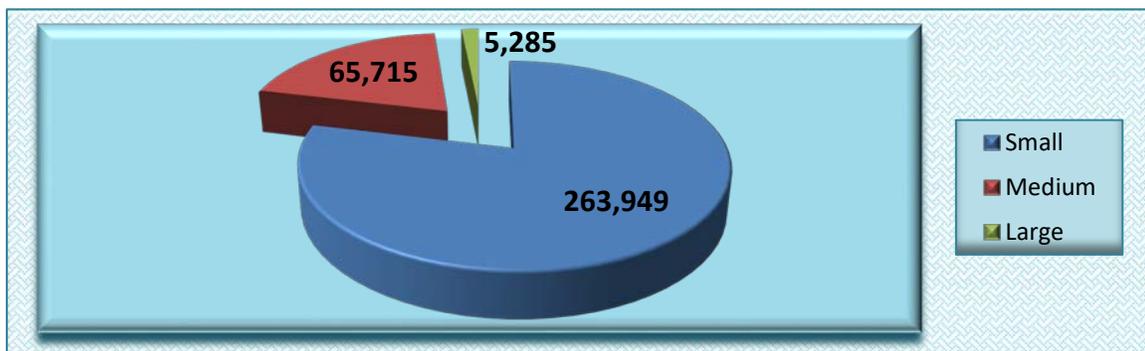
2. Small, Medium and Large Non-Residential

As of Dec. 31, 2016, the category of small non-residential customers had the highest number of EGS accounts however; the large non-residential customers had the highest volume of EGS sales (MWh). The category of large non-residential had the highest percentage of customer accounts and MWhs served by the EGSs. Each of the EDCs defines what constitutes a small, medium and large non-residential customer differently. See the Appendix for further details of these definitions.

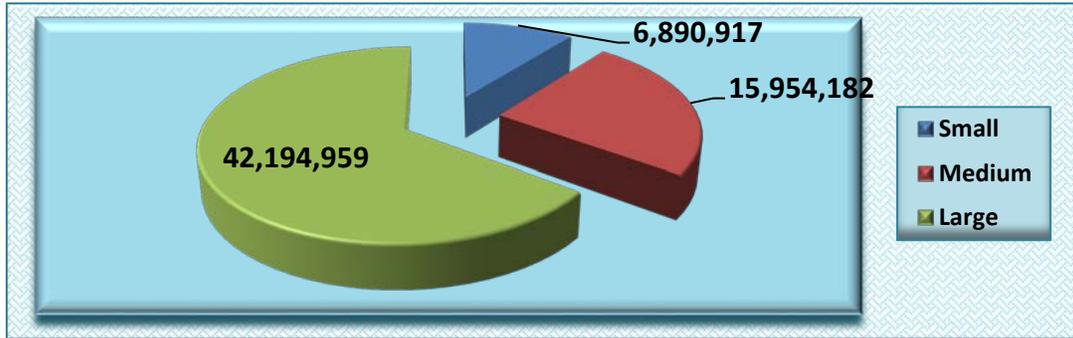
**Table 4 - Number of Customer Accounts and MWh Sales: 2014 - 2016
Small, Medium and Large Non-Residential**

	<i>Small</i>		<i>Medium</i>		<i>Large</i>	
	<i>Customer Accounts</i>	<i>MWh Sales</i>	<i>Customer Accounts</i>	<i>MWh Sales</i>	<i>Customer Accounts</i>	<i>MWh Sales</i>
Total Served by EGSs- 2016	263,949	6,890,917	65,715	15,954,182	5,285	42,194,959
Total Served by EGSs- 2015	253,913	7,580,224	63,009	15,209,250	5,268	42,899,195
Total Served by EGSs- 2014	264,341	8,376,695	44,510	14,265,400	5,127	42,831,528
Total Served-- EGSs and EDCs- 2016	577,966	10,257,635	118,557	20,404,612	5,850	43,803,492
Total Served-- EGSs and EDCs- 2015	572,377	11,879,303	119,184	19,696,836	5,865	44,814,510
Total Served-- EGSs and EDCs- 2014	614,138	13,310,324	76,276	17,924,967	5,687	44,792,993
Percent Served by EGSs- 2016	46	67	55	78	90	96
Percent Served by EGSs- 2015	44	64	53	77	90	96
Percent Served by EGSs- 2014	43	63	58	80	90	96

**Figure 5 - Number of EGS Customer Accounts - 2016
Small, Medium and Large Non-Residential**



**Figure 6 - EGS MWh Sales - 2016
Small, Medium and Large Non-Residential**

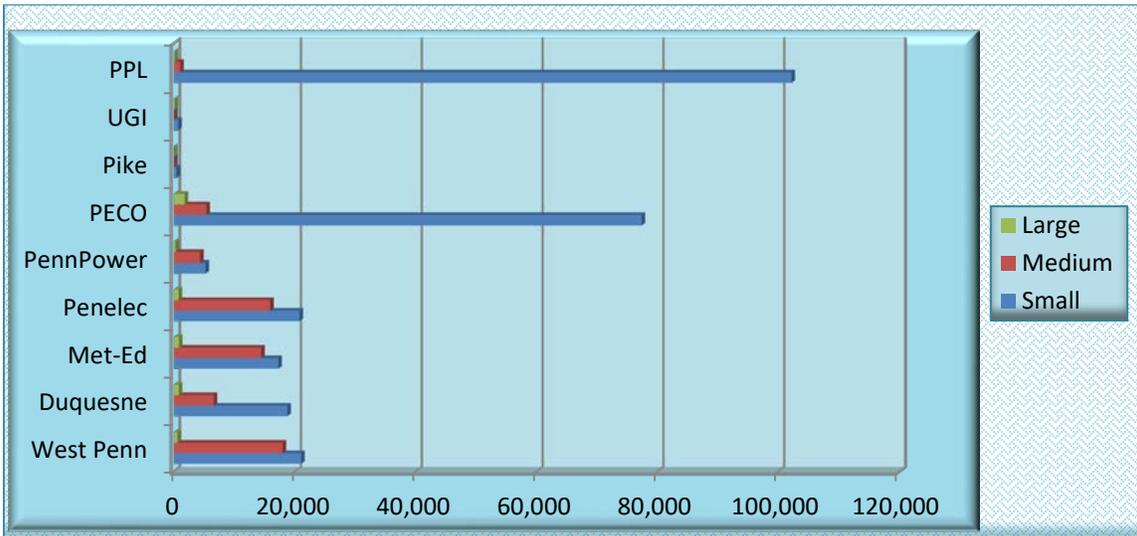


**Table 5 - Number of Customer Accounts by EDC Service Territories: 2016
Small, Medium and Large Non-Residential***

EDC	Number Small Non-Residential Accounts			Number Medium Non-Residential Accounts			Number Large Non-Residential Accounts		
	EGS	Total	%	EGS	Total	%	EGS	Total	%
Citizens	61	1,134	5	22	33	67	4	4	100
Duquesne	18,771	50,272	37	6,567	10,729	61	802	892	90
UGI	712	8,337	9	0	0	0	125	202	62
Met-Ed	17,273	41,393	42	14,450	25,564	57	826	900	92
Penelec	20,783	55,393	38	15,936	30,025	53	776	861	90
Penn Power	5,229	12,180	43	4,336	8,408	52	279	312	89
PECO	77,407	157,929	49	5,367	6,330	85	1,761	1,873	96
Pike	436	985	44	0	0	0	3	7	43
PPL	102,206	183,180	56	1,039	1,159	90	130	148	88
Wellsboro	7	831	1	13	354	4	3	13	23
West Penn	21,064	66,332	32	17,985	35,955	50	576	638	90

*See Appendix for definitions of small, medium and large non-residential classifications.

Figure 7 - Number of EGS Customer Accounts by Classification - 2016
Small, Medium and Large Non-Residential



B. MWh Sales

1. Residential and Non-Residential

As noted in Table 6, EGS sales in Pennsylvania totaled 79,113,811 MWhs during calendar year 2016. This represents a decrease of 1,094,490 MWhs (1 percent) compared to 80,208,301 MWhs during the previous calendar year. From the first quarter through the fourth quarter of 2016, EGS sales decreased 5%. EGS sales (MWh) in the residential and non-residential classes decreased 16% and 2%, respectively.

As noted in Table 7, PECO, West Penn and PPL, respectively, had the highest EGS sales (MWh) for calendar year 2016, predominantly in the non-residential sector. However, as shown below, EGS sales (MWh) in these EDC service territories were variable, increasing and decreasing, depending on the quarter.

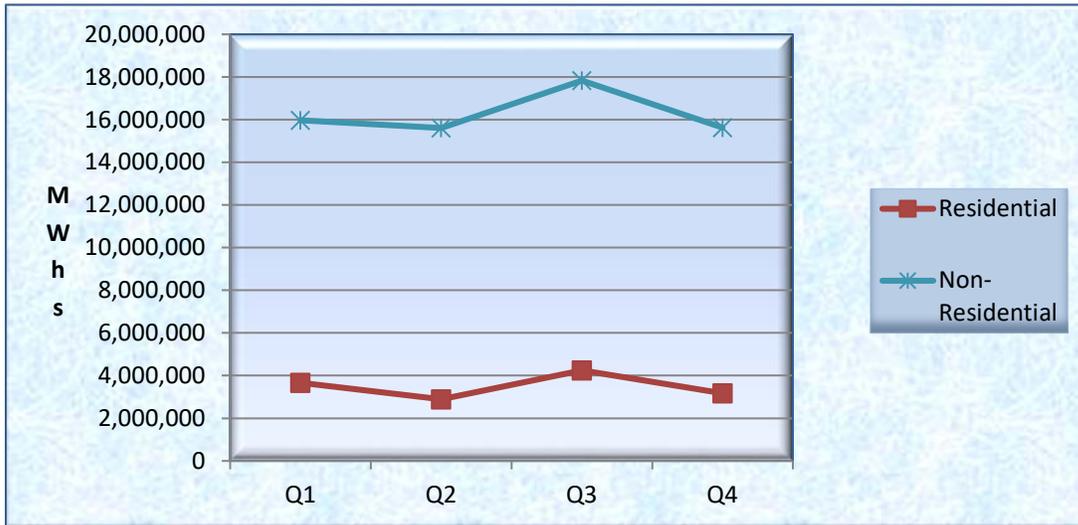
**Table 6 - EGS Sales (MWh): 2016
Residential and Non-Residential**

<i>Year and Quarter</i>	<i>Residential</i>	<i>Non-Residential</i>	<i>Total</i>
2015	14,519,632	65,688,669	80,208,301
2016	14,073,753	65,040,058	79,113,811
1st Quarter 2016	3,767,749	15,977,335	19,745,084
2 nd Quarter 2016	2,890,312	15,606,900	18,497,212
3 rd Quarter 2016	4,245,457	17,831,184	22,076,641
4 th Quarter 2016	3,170,235	15,624,639	18,794,874

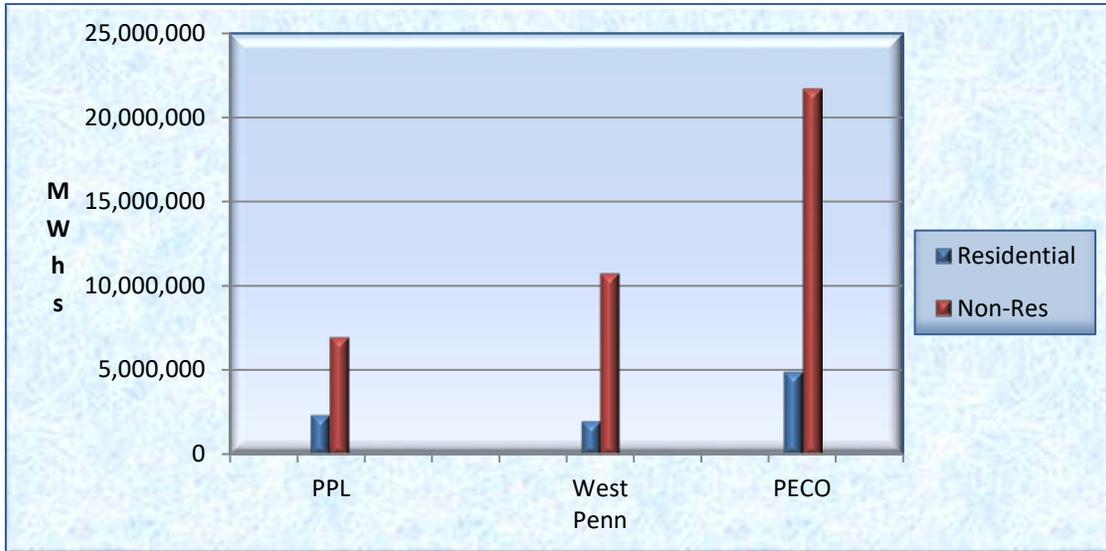
**Table 7 - Sales (MWh) by EDC Service Territory: 2016
Residential and Non-Residential**

EDC	Residential Sales (MWh)			Non-Residential Sales (MWh)			Total Sales (MWh)		
	EGS	Total	%	EGS	Total	%	EGS	Total	%
Citizens	228	83,010	0	52,224	87,812	59	52,452	170,822	31
Duquesne	1,399,706	4,155,035	34	7,480,480	8,776,070	85	8,880,186	12,931,105	69
UGI	4,088	539,981	1	237,568	429,353	55	241,656	969,334	25
Met-Ed	1,791,991	5,387,715	33	7,428,046	8,325,101	89	9,220,037	13,712,816	67
Penelec	1,270,866	4,196,570	30	8,018,270	9,233,443	87	9,289,136	13,430,013	69
Penn Power	417,656	1,672,767	25	2,414,490	2,908,092	83	2,832,146	4,580,859	62
PECO	4,868,510	13,615,209	36	21,680,247	24,295,760	89	26,548,757	37,910,969	70
Pike	5,360	10,207	53	7,832	16,085	49	13,192	26,292	50
PPL	2,336,323	4,758,294	49	6,969,738	7,559,813	92	9,306,061	12,318,107	76
Wellsboro	0	43,522	0	5,191	74,584	7	5,191	118,106	4
West Penn	1,979,025	7,125,274	28	10,745,972	12,759,626	84	12,724,997	19,884,900	64

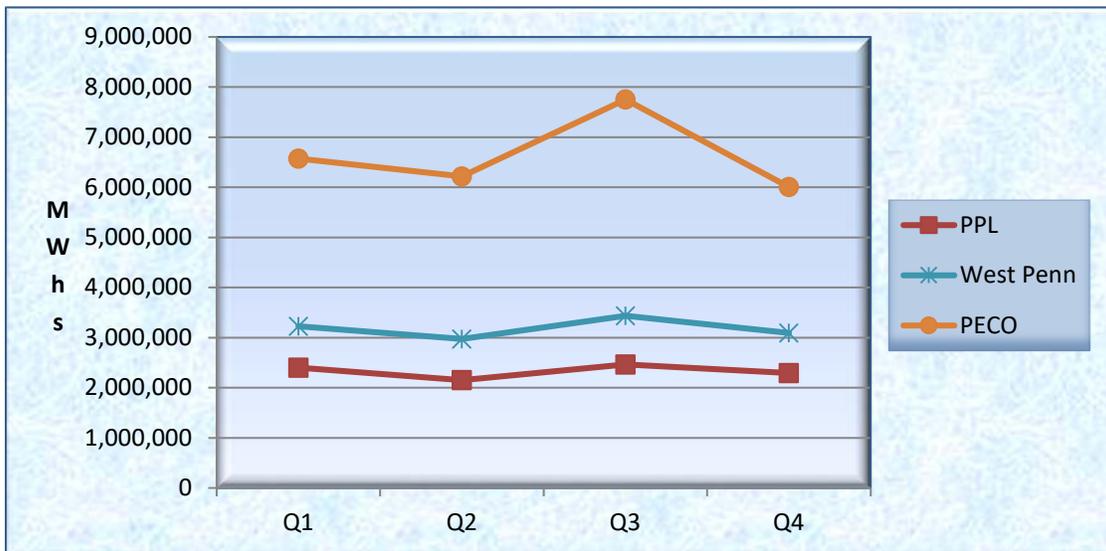
**Figure 8 - EGS Sales (MWh): Quarterly Trends 2016
Residential and Non-Residential**



**Figure 9 - EGS Sales (MWh) - 2016
Top Three EDC Territories with EGS Sales
Residential and Non-Residential**



**Figure 10 - EGS Sales (MWh): Quarterly Trends - 2016
Top Three EDC Territories with EGS Sales
Residential and Non-Residential**



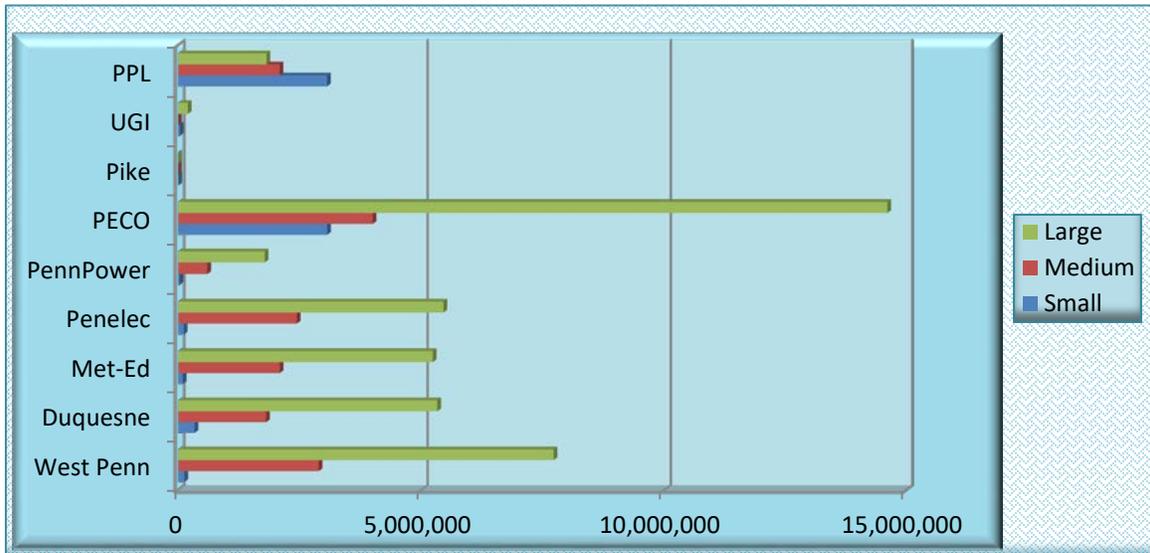
2. Small, Medium and Large Non-Residential

**Table 8 - Sales (MWh) by EDC Service Territories: 2016
Small, Medium and Large Non-Residential***

EDC	Small Non-Residential Accounts			Medium Non-Residential Accounts			Large Non-Residential Accounts		
	EGS	Total	%	EGS	Total	%	EGS	Total	%
Citizens	5,949	30,464	20	22,467	33,540	67	23,808	23,808	100
Duquesne	339,282	752,635	45	1,810,598	2,476,987	73	5,330,600	5,546,448	96
UGI	35,586	152,368	23	0	0	0	201,982	276,985	73
Met-Ed	98,012	207,677	47	2,091,373	2,764,157	76	5,238,661	5,353,267	98
Penelec	117,802	285,826	41	2,442,644	3,292,964	74	5,457,824	5,654,653	97
Penn Power	29,087	70,650	41	602,515	919,797	66	1,782,888	1,917,645	93
PECO	3,066,208	4,795,874	64	4,002,139	4,539,547	88	14,611,900	14,960,339	96
Pike	6,007	11,851	51	0	0	0	1,825	4,234	43
PPL	3,062,450	3,598,368	85	2,088,455	2,127,735	98	1,818,833	1,833,710	99
Wellsboro	31	4,488	1	1,215	28,035	4	3,945	42,061	9
West Penn	130,503	347,434	38	2,892,776	4,221,850	69	7,722,693	8,190,342	94

*See Appendix for definitions of small, medium and large non-residential classifications.

**Figure 11 - EGS Sales (MWh) by Classification - 2016
Small, Medium and Large Non-Residential**



III. Time-Varying Rates

This section provides information on trends as defined in the Commission’s regulations for:

Time-of-Use (TOU)

- Total Number of EDC TOU Customer Accounts Served by EGSs
 - 52 Pa Code §54.203(a)(2)(vi)-
- Total Number of EDC TOU Customer Accounts Served by EGSs and EDC
 - 52 Pa Code §54.203(a)(2)(vii)-
- MWh Sales of EGSs; MWh Sales of EGSs and EDC
 - 52 Pa Code §54.203 (a)(2)(viii)(ix)-

Hourly/Real-Time Priced

- Total Number of EDC Hourly/Real-Time Priced Customer Accounts Served by EGSs
 - 52 Pa Code §54.203 (a)(2)(x)(xi)-
- Total Number of EDC Hourly/Real-Time Priced Customer Accounts Served by EGSs and EDCs
 - 52 Pa Code §54.203 (a)(2)(x)(xi)-
- MWh Sales of EGSs; MWh Sales of EGSs and EDCs
 - 52 Pa Code Pa Code §54.203 (a)(2)(xii)(xiii)-

A. Time of Use

For calendar year 2016, the number of reported EDC TOU customer accounts reflected a significant increase while the sales (MWh) from EDC TOU programs reflected a significant decrease. Only Duquesne Light Company (Duquesne) and UGI Utilities (UGI) reported TOU sales in the residential class. See the Appendix for definitions of small, medium and large non-residential classes.

Table 9 - Number of EDCs TOU Customer Accounts and Sales (MWh) - 2016

<i>Year and Quarter</i>	<i>(a) Number of Accounts</i>	<i>(b) MWh Sales</i>
<i>End-of-Year</i>		
2015	6	481,243
2016	328	1,519
1st Quarter 2016	6	11
2 nd Quarter 2016	182	56
3 rd Quarter 2016	357	879
4 th Quarter 2016	328	573

**Table 10 - Number of EDCs' TOU Customer Accounts - 2016
Residential and Non-Residential**

<i>EDC</i>	<i>Number Residential Accounts</i>			<i>Number Non-Residential Accounts</i>			<i>Total Accounts</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	0	0	0	0	0	0	0	0	0
Duquesne	322	322	100	0	0	0	322	322	100
UGI	0	6	0	0	0	0	0	6	0
Met-Ed	0	0	0	0	0	0	0	0	0
Penelec	0	0	0	0	0	0	0	0	0
Penn Power	0	0	0	0	0	0	0	0	0
PECO	0	0	0	0	0	0	0	0	0
Pike	0	0	0	0	0	0	0	0	0
PPL	0	0	0	0	0	0	0	0	0
Wellsboro	0	0	0	0	0	0	0	0	0
West Penn	0	0	0	0	0	0	0	0	0
Total	322	328	98	0	0	0	322	328	98

**Table 11 – EDCs' TOU Customer Accounts Sales (MWh) - 2016
Residential and Non-Residential**

<i>EDC</i>	<i>Residential Sales (MWh)</i>			<i>Non-Residential Sales (MWh)</i>			<i>Total Sales (MWh)</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	0	0	0	0	0	0	0	0	0
Duquesne	1,475	1,475	100	0	0	0	1,475	1,475	100
UGI	0	44	0	0	0	0	0	44	0
Met-Ed	0	0	0	0	0	0	0	0	0
Penelec	0	0	0	0	0	0	0	0	0
Penn Power	0	0	0	0	0	0	0	0	0
PECO	0	0	0	0	0	0	0	0	0
Pike	0	0	0	0	0	0	0	0	0
PPL	0	0	0	0	0	0	0	0	0
Wellsboro	0	0	0	0	0	0	0	0	0
West Penn	0	0	0	0	0	0	0	0	0
Total	1,475	1,519	97	0	0	0	1,475	1,519	97

B. Hourly/Real-Time Priced

From calendar year 2015 through 2016, the number of EDCs' hourly/real-time priced customer accounts increased over 100%; electricity sales (MWh) increased 7%. PECO, Duquesne, Met-Ed, Penelec, West Penn, Pennsylvania Power Company (Penn Power), PPL and UGI reported having only hourly/real-time priced customer accounts for the non-residential class. The medium non-residential class had the most hourly/real-time priced customer accounts.

Table 12 - Number of EDCs' Hourly/Real-Time Priced Customer Accounts and Sales (MWh): 2015 - 2016

<i>Year and Quarter</i>	<i>Number of Accounts</i>	<i>Sales (MWh)</i>
2015	5,887	42,779,596
2016	12,195	45,394,823
1st Quarter 2016	5,912	10,394,796
2 nd Quarter 2016	12,218	11,218,955
3 rd Quarter 2016	12,160	12,631,219
4 th Quarter 2016	12,195	11,149,853

Table 13 - Number of EDCs' Hourly/Real-Time Priced Customer Accounts: 2016 Residential and Non-Residential

<i>EDC</i>	<i>Number Residential Accounts</i>			<i>Number Non-Residential Accounts</i>			<i>Total Accounts</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	0	0	0	0	2	0	0	2	0
Duquesne	0	0	0	802	892	90	802	809	90
UGI	0	0	0	125	202	62	125	202	62
Met-Ed	0	0	0	826	900	92	826	900	92
Penelec	0	0	0	776	861	90	776	861	90
Penn Power	0	0	0	279	312	89	279	312	89
PECO	0	0	0	7,128	8,203	87	7,128	8,203	87
Pike	0	0	0	0	0	0	0	0	0
PPL	0	0	0	0	185	0	0	185	0
Wellsboro	0	0	0	0	0	0	0	0	0
West Penn	0	0	0	576	638	90	576	638	90
Total	0	0	0	10,512	12,195	86	10,512	12,195	86

**Table 14 - Number of EDCs' Hourly/Real-Time Priced Customer Accounts: 2016
Small, Medium and Large Non-Residential**

<i>EDC</i>	<i>Number Small Non-Residential Accounts</i>			<i>Number Medium Non-Residential Accounts</i>			<i>Number Large Non-Residential Accounts</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	0	0	0	0	2	0	0	0	0
Duquesne	0	0	0	0	0	0	802	892	90
UGI	0	0	0	0	0	0	125	202	62
Met-Ed	0	0	0	0	0	0	826	900	92
Penelec	0	0	0	0	0	0	776	861	90
Penn Power	0	0	0	0	0	0	279	312	89
PECO	0	0	0	5,367	6,330	85	1,761	1,873	96
Pike	0	0	0	0	0	0	0	0	0
PPL	0	120	0	0	47	0	0	18	0
Wellsboro	0	0	0	0	0	0	0	0	0
West Penn	0	0	0	0	0	0	576	638	90
Total	0	120	0	5,367	6,379	84	5,145	5,696	90

**Table 15 - Hourly/Real-Time Priced Sales (MWh) by EDC Service Territories: 2016
Residential and Non-Residential**

<i>EDC</i>	<i>Residential Sales (MWh)</i>			<i>Non-Residential Sales (MWh)</i>			<i>Total Sales (MWh)</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	0	0	0	0	6,661	0	0	6,661	0
Duquesne	0	0	0	5,330,600	5,546,448	96	5,330,600	5,546,448	96
UGI	0	0	0	201,982	276,985	73	201,982	276,985	73
Met-Ed	0	0	0	5,238,661	5,353,267	98	5,238,661	5,353,267	98
Penelec	0	0	0	5,457,824	5,654,653	97	5,457,824	5,654,653	97
Penn Power	0	0	0	1,782,888	1,917,645	93	1,782,888	1,917,645	93
PECO	0	0	0	17,649,135	18,368,555	96	17,649,135	18,368,555	96
Pike	0	0	0	0	0	0	0	0	0
PPL	0	0	0	0	80,267	0	0	80,267	0
Wellsboro	0	0	0	0	0	0	0	0	0
West Penn	0	0	0	7,722,693	8,190,342	94	7,722,693	8,190,342	94
Total	0	0	0	43,383,783	45,394,823	96	43,383,783	45,394,823	96

**Table 16 – EDCs’ Hourly/Real-Time Priced Customer Accounts Sales (MWh): 2016
Small, Medium and Large Non-Residential**

<i>EDC</i>	<i>Small Non-Residential Accounts</i>			<i>Medium Non-Residential Accounts</i>			<i>Large Non-Residential Accounts</i>		
	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>	<i>EGS</i>	<i>Total</i>	<i>%</i>
Citizens	0	0	0	0	6,661	0	0	0	0
Duquesne	0	0	0	0	0	0	5,330,600	5,546,448	96
UGI	0	0	0	0	0	0	201,982	276,985	73
Met-Ed	0	0	0	0	0	0	5,238,661	5,353,267	98
Penelec	0	0	0	0	0	0	5,457,824	5,654,653	97
Penn Power	0	0	0	0	0	0	1,782,888	1,917,645	93
PECO	0	0	0	3,037,235	3,408,216	89	14,611,900	14,960,339	96
Pike	0	0	0	0	0	0	0	0	0
PPL	0	34,481	0	0	30,909	0	0	14,877	0
Wellsboro	0	0	0	0	0	0	0	0	0
West Penn	0	0	0	0	0	0	7,722,693	8,190,342	94
Total	0	34,481	0	3,037,235	3,445,786	88	40,346,548	41,914,556	96

IV. Number of Active EGSs in EDC Service Territories

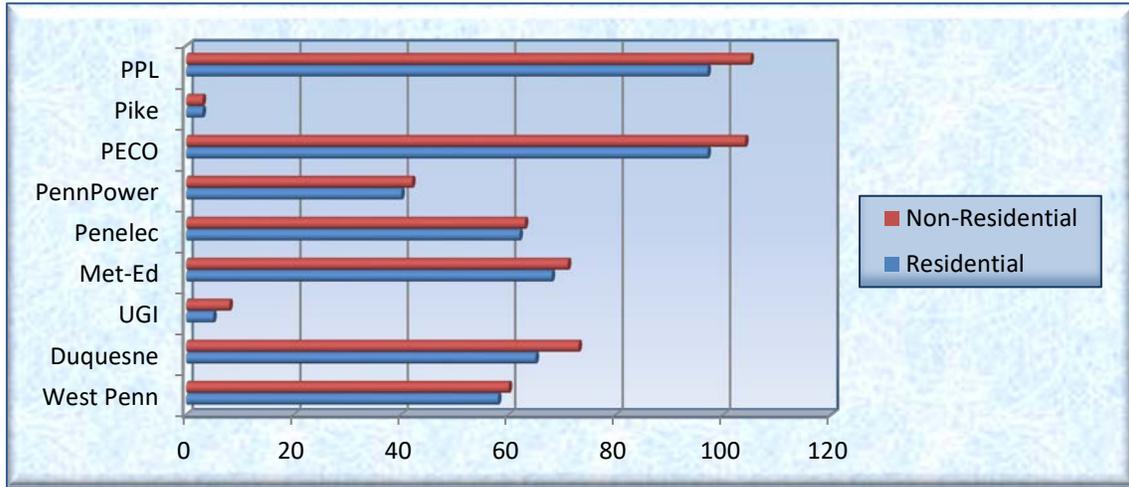
This section summarizes the number of active EGSs serving customer accounts in EDC service territories on Dec. 31, 2015, and Dec. 31, 2016, therefore, all data in the following tables and figures are as of December 31 of the year indicated. An active EGS is defined as “an EGS that is licensed to provide retail electric generation service and is providing that service to one or more customers.” The data is presented for residential/non-residential and small, medium and large non-residential classes.

As of December 31, 2015, there were 106 active EGSs. As of December 31, 2016, the number of active EGSs increased to 113. The numbers shown in Table 17 reflect EGSs serving multiple service territories and therefore cannot be added in a cumulative fashion. From Dec. 31, 2015, through Dec. 31, 2016, the number of active EGSs increased in Duquesne, UGI, Met-Ed, Penelec, PennPower, PECO, PPL and West Penn service territories. PPL, PECO and Duquesne reported the most active EGSs during this period, predominantly in the non-residential class. The small non-residential class had the most active EGSs.

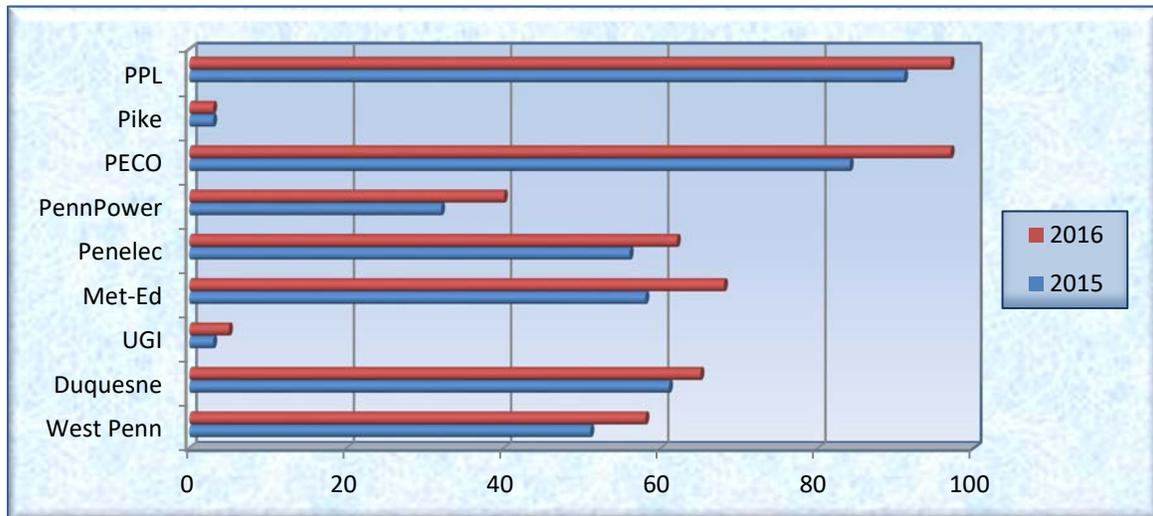
**Table 17 - Number of Active EGSs by EDC Service Territories: 2015 - 2016
Residential and Non-Residential**

<i>EDC</i>	<i># Active EGSs Residential 2015</i>	<i># Active EGSs Residential 2016</i>	<i># Active EGSs Non-Residential 2015</i>	<i># Active EGSs Non-Residential 2016</i>
Citizens	1	1	1	1
Duquesne	61	65	69	73
UGI	3	5	7	8
Met-Ed	58	68	60	71
Penelec	56	62	53	63
Penn Power	32	40	36	42
PECO	84	97	89	104
Pike	3	3	3	3
PPL	91	97	103	105
Wellsboro	0	0	0	1
West Penn	51	58	54	60

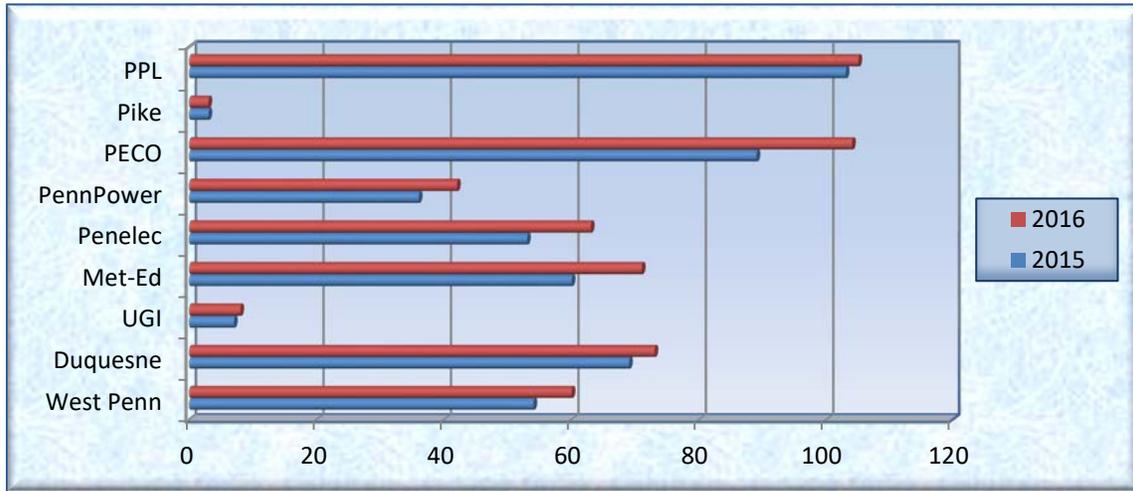
**Figure 12 - Active EGSs by EDC Service Territories - 2016
Residential and Non-Residential**



**Figure 13 - Active EGSs by EDC Service Territories – 2015 - 2016
Residential**



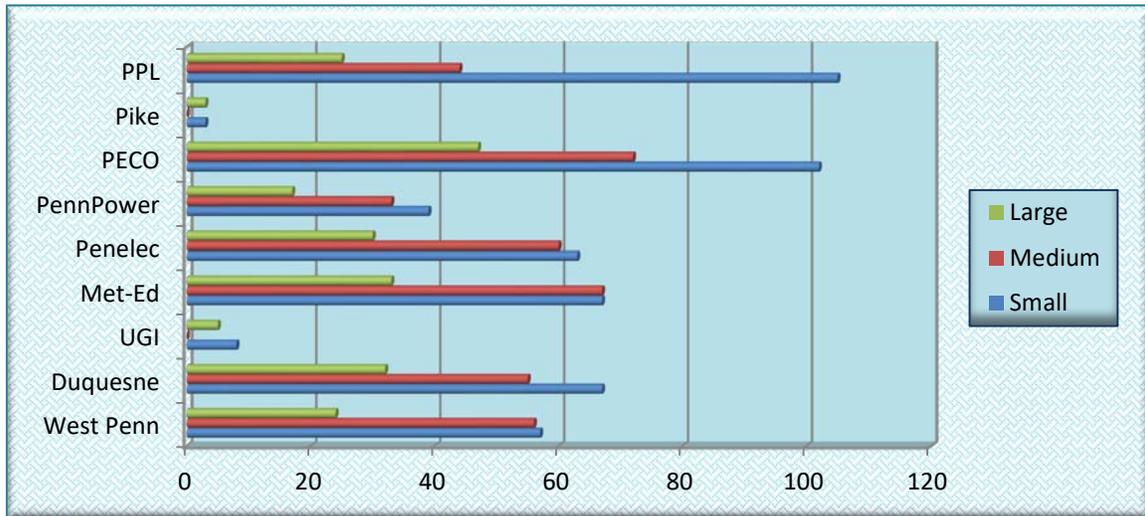
**Figure 14 - Active EGSs by EDC Service Territories – 2015 - 2016
Non-Residential**



**Table 18 - Number of Active EGSs by EDC Service Territories: 2016
Small, Medium and Large Non-Residential**

EDC	# EGSs- Small Non-Residential	# EGSs- Medium Non-Residential	# EGSs- Large Non-Residential
Citizens	1	1	1
Duquesne	67	55	32
UGI	8	0	5
Met-Ed	67	67	33
Penelec	63	60	30
Penn Power	39	33	17
PECO	102	72	47
Pike	3	0	3
PPL	105	44	25
Wellsboro	0	0	0
West Penn	57	56	24

**Figure 15 - Active EGSs by EDC Service Territories - 2016
Small, Medium and Large Non-Residential**



V. Electric Generation Supplier Programs

This section summarizes data submitted to the Commission by 96 of the 113 active EGSs regarding the number of customer accounts that participated in various programs. To maintain confidentiality, the data is reported in the aggregate and does not disclose individual EGS market shares. EGS program categories include: flat and time-varying rates; fixed-term contract lengths; curtailable and green power products; and EGS billing information.

Highlights as of Dec. 31, 2016:

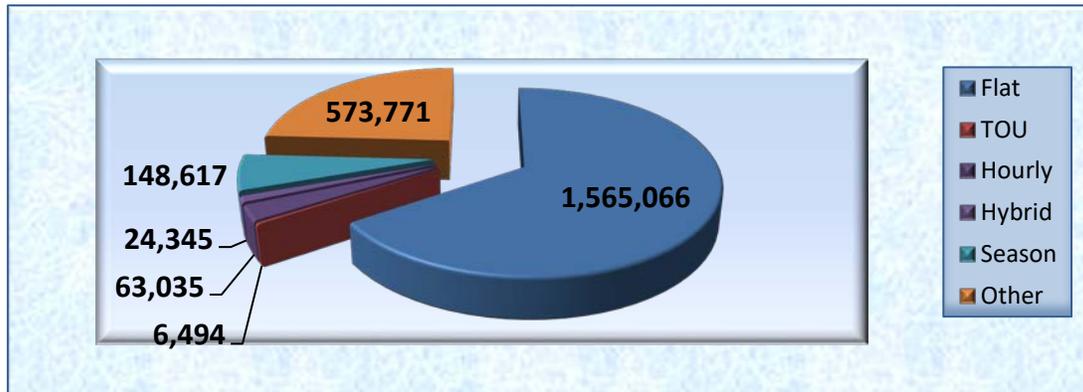
- **Flat and Time-Varying Rates:**
 - Flat rates had the most customer accounts with 1,565,066. The residential class comprised 1,352,575 (86 percent) of flat-rate accounts. The small non-residential class had the most non-residential, flat-rate customer accounts with 171,047;
 - Time-Varying rates, including TOU, hourly/real-time, seasonal, hybrid and others had a combined total of 816,262 customer accounts. The residential class comprised 666,786 (82 percent) of time-varying accounts. The small non-residential class had the most non-residential time-varying rate customer accounts with 135,309;
- **Fixed-Term Contract Lengths:** One-year, fixed-term contracts had the most customer accounts with 700,272. The residential class comprised 638,956 (91%) of these contracts. The small non-residential class had the most non-residential, two-year, fixed-term customer accounts with 59,175;
- **Curtilable:** Mandatory curtilable programs had the most customer accounts with 41,684, as compared to voluntary curtilable programs. The residential class comprised 39,665 (95 percent) of mandatory programs. The small non-residential class had the most non-residential, mandatory curtilable customer accounts with 1,964;
- **Green Power:** Green power programs had 297,597 customer accounts. The residential class comprised 267,428 (90 percent) of these accounts. The small non-residential class had the most non-residential green power customer accounts with 28,174;
- **Billing:** Supplier billing had 67,231 customer accounts with 98 percent coming from the non-residential class. The small non-residential class had the most non-residential supplier billing customer accounts with 49,541.

Flat and Time-Varying Rates

**Table 19 - Number of EGS Flat and Time-Varying Customer Accounts:
2014 Through 2016
Residential and Non-Residential***

<i>Program</i>	<i>Number Residential Customer Accounts</i>	<i>Number Non-Residential Customer Accounts</i>	<i>Number Residential/ Non-Residential Customer Accounts</i>
Flat Rate- 2016	1,352,575	212,491	1,565,066
Flat Rate- 2015	1,271,217	236,979	1,508,196
Flat Rate- 2014	874,918	149,960	1,024,878
Time of Use- 2016	6,281	213	6,494
Time of Use- 2015	9,292	286	9,578
Time of Use- 2014	0	554	554
Hourly/Real Time- 2016	46,956	16,079	63,035
Hourly/Real Time- 2015	34,801	63,927	98,728
Hourly/Real Time- 2014	69,529	51,283	120,812
Seasonal Rates- 2016	134,458	14,159	148,617
Seasonal Rates- 2015	144,372	15,217	159,589
Seasonal Rates- 2014	47,207	5,578	52,785
Hybrid- 2016	35	24,310	24,345
Hybrid- 2015	3	28,683	28,686
Hybrid- 2014	133	22,084	22,217
Other- 2016	479,056	94,715	573,771
Other- 2015	385,508	37,504	423,012
Other- 2014	271,349	15,484	286,833

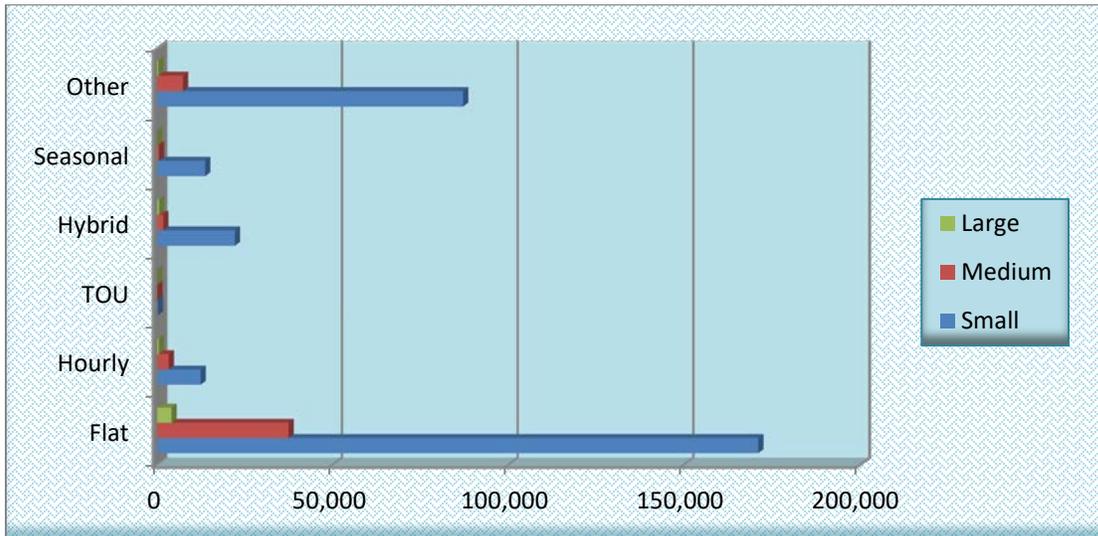
**Figure 16 - EGS Flat and Time-Varying Customer Accounts - 2016
Residential and Non-Residential**



**Table 20 - Number of EGS Flat and Time-Varying Customer Accounts:
2014 Through 2016
Small, Medium and Large Non-Residential**

<i>Program</i>	<i>Number Small Customer Accounts</i>	<i>Number Medium Customer Accounts</i>	<i>Number Large Customer Accounts</i>
Flat Rate- 2016	171,047	37,374	4,070
Flat Rate- 2015	184,727	43,761	8,491
Flat Rate- 2014	106,991	38,460	4,509
Time of Use- 2016	168	33	12
Time of Use- 2015	218	55	13
Time of Use- 2014	256	286	12
Hourly/Real Time- 2016	12,358	3,290	431
Hourly/Real Time- 2015	58,173	5,143	611
Hourly/Real Time- 2014	26,916	22,180	2,187
Seasonal- 2016	13,643	513	3
Seasonal- 2015	14,883	333	1
Seasonal- 2014	5,187	379	12
Hybrid- 2016	22,087	1,707	516
Hybrid- 2015	24,257	3,695	731
Hybrid- 2014	17,661	3,150	1,273
Other- 2016	87,053	7,336	326
Other- 2015	32,473	4,970	61
Other- 2014	12,881	1,062	1,541

**Figure 17 - EGS Flat and Time-Varying Customer Accounts - 2016
Small, Medium and Large Non-Residential**



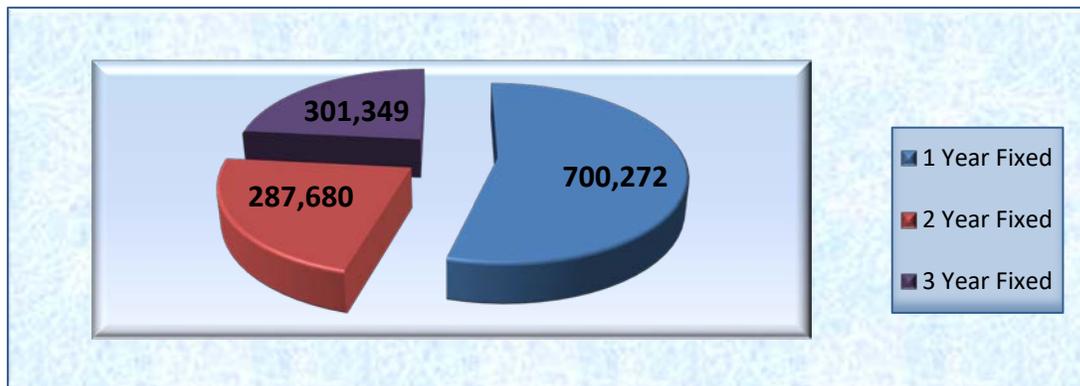
Fixed-Term Contract Lengths

**Table 21 - Number of EGS Fixed-Term Contract Customer Accounts:
2014 Through 2016
Residential and Non-Residential***

<i>Program</i>	<i>Number Residential Customer Accounts</i>	<i>Number Non-Residential Customer Accounts</i>	<i>Number Residential/ Non-Residential Customer Accounts</i>
1 Year Fixed Term- 2016	638,956	61,316	700,272
1 Year Fixed Term- 2015	644,894	55,771	700,665
1 Year Fixed Term- 2014	425,620	33,470	459,090
2 Year Fixed Term- 2016	219,022	68,658	287,680
2 Year Fixed Term- 2015	287,096	88,048	375,144
2 Year Fixed Term- 2014	194,914	58,147	253,061
3 Year Fixed Term- 2016	227,622	73,727	301,349
3 Year Fixed Term- 2015	270,306	65,541	335,847
3 Year Fixed Term- 2014	9,970	34,142	44,112

*Data reflects the number of fixed term contract customer accounts by length of the original primary contract specifying the length in number of years.
Data Includes customer accounts on flat, seasonal, TOU, and hybrid rate schedules.

**Figure 18 - EGS Fixed-Term Contract Customer Accounts - 2016
Residential and Non-Residential***



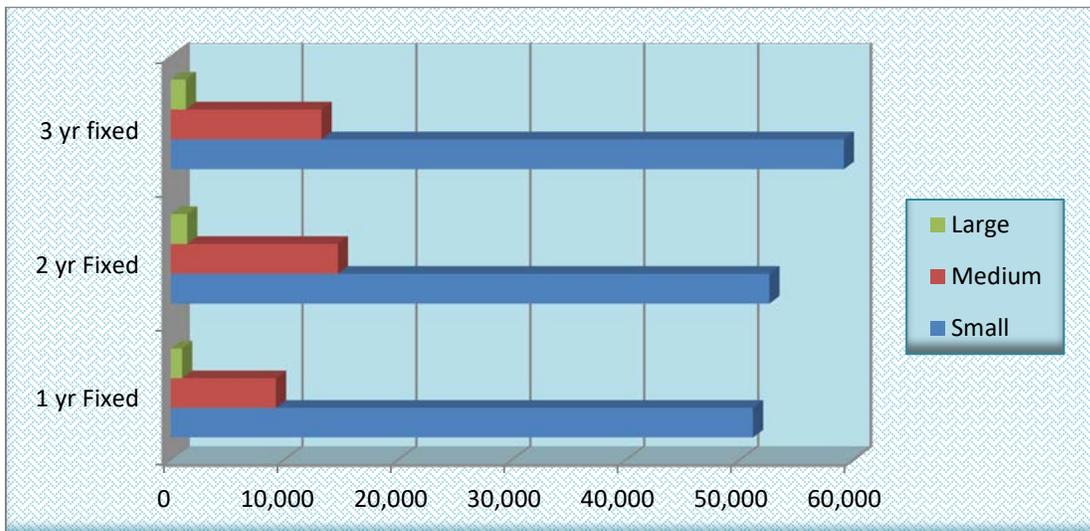
*Data reflects the number of fixed term contract customer accounts by length of the original primary contract, specifying the length in number of years.
Data Includes customer accounts on flat, seasonal, TOU, and hybrid rate schedules.

**Table 22 - Number of EGS Fixed-Term Contract Customer Accounts:
2014 Through 2016
Small, Medium and Large Non-Residential***

<i>Program</i>	<i>Number Small Customer Accounts</i>	<i>Number Medium Customer Accounts</i>	<i>Number Large Customer Accounts</i>
1 Year Fixed Term- 2016	51,098	9,229	989
1 Year Fixed Term- 2015	47,804	6,975	992
1 Year Fixed Term- 2014	24,682	7,647	1,141
2 Year Fixed Term- 2016	52,551	14,667	1,440
2 Year Fixed Term- 2015	67,759	18,194	2,095
2 Year Fixed Term- 2014	38,599	17,293	2,255
3 Year Fixed Term- 2016	59,175	13,230	1,322
3 Year Fixed Term- 2015	48,896	14,585	2,060
3 Year Fixed Term- 2014	22,635	10,323	1,184

*Data reflects the number of fixed term contract customer accounts by length of the original primary contract specifying the length in number of years.
Data Includes customer accounts on flat, seasonal, TOU, and hybrid rate schedules.

**Figure 19 - EGS Fixed-Term Contract Customer Accounts - 2016
Small, Medium and Large Non-Residential***



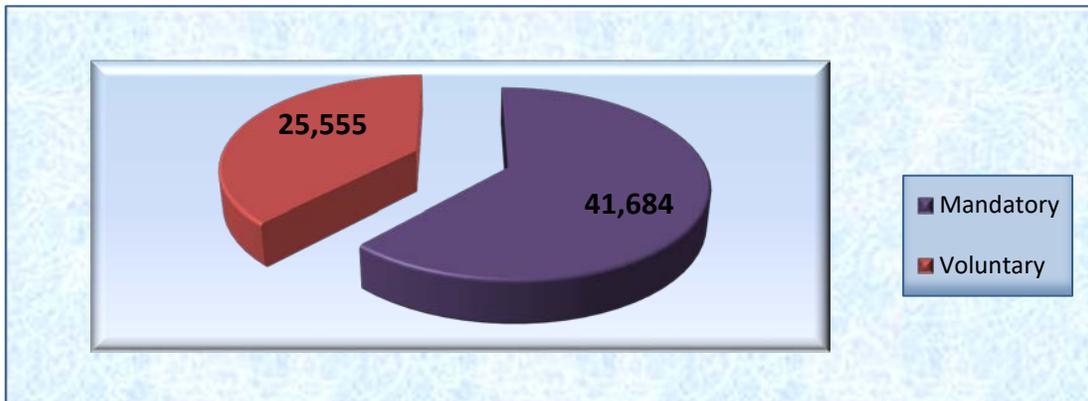
*Data reflects the number of fixed term contract customer accounts by length of the original primary contract, specifying the length in number of years.
Data Includes customer accounts on flat, seasonal, TOU, and hybrid rate schedules.

Curtable Programs

**Table 23 - Number of EGS Curtable Customer Accounts:
2014 Through 2016
Residential and Non-Residential***

<i>Program</i>	<i>Number Residential Customer Accounts</i>	<i>Number Non-Residential Customer Accounts</i>
Mandatory Curtable- 2016	39,665	2,019
Mandatory Curtable- 2015	40,450	2,253
Mandatory Curtable- 2014	26,235	1,069
Voluntary Curtable- 2016	23,809	1,746
Voluntary Curtable- 2015	8,353	1,423
Voluntary Curtable- 2014	4,802	1,367

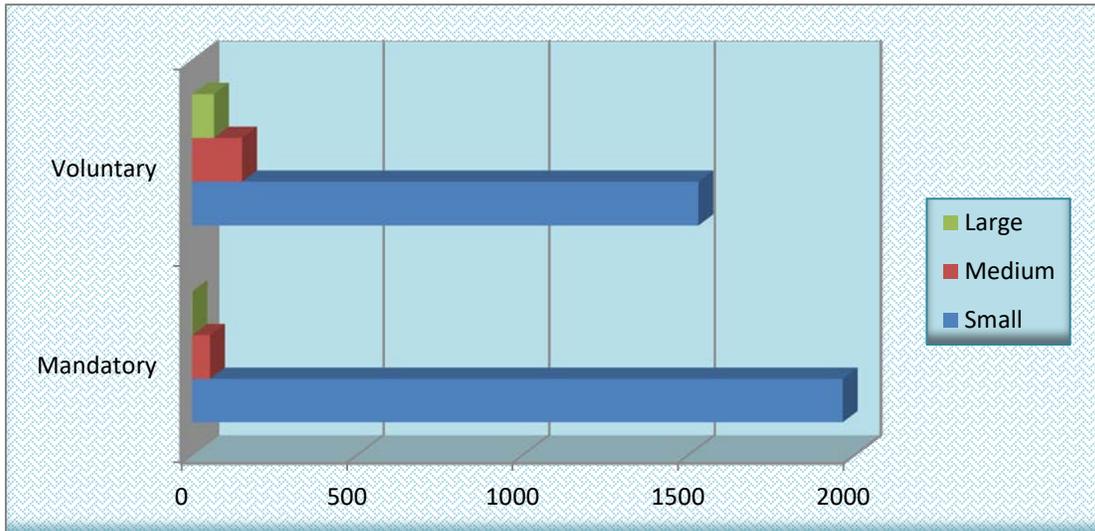
**Figure 20 - EGS Curtable Customer Accounts - 2016
Residential and Non-Residential**



**Table 24 - Number of EGS Curtailable Customer Accounts:
2014 Through 2016
Small, Medium and Large Non-Residential***

<i>Program</i>	<i>Number Small Customer Accounts</i>	<i>Number Medium Customer Accounts</i>	<i>Number Large Customer Accounts</i>
Mandatory Curtailable- 2016	1,964	54	1
Mandatory Curtailable- 2015	2,174	72	7
Mandatory Curtailable- 2014	894	120	55
Voluntary Curtailable- 2016	1,529	151	66
Voluntary Curtailable- 2015	1,272	89	62
Voluntary Curtailable- 2014	654	8	705

**Figure 21 - EGS Curtailable Customer Accounts - 2016
Small, Medium and Large Non-Residential**

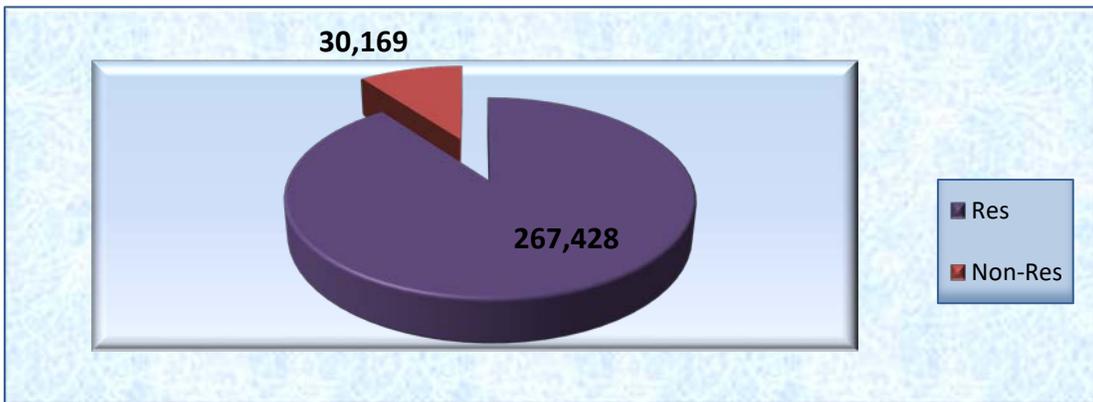


Green Power

**Table 25 - Number of EGS Green Power Customer Accounts:
2014 Through 2016
Residential and Non-Residential***

<i>Program</i>	<i>Number Residential Customer Accounts</i>	<i>Number Non-Residential Customer Accounts</i>	<i>Total Residential/ Non-Residential Customer Accounts</i>
Green Power- 2016	267,428	30,169	297,597
Green Power- 2015	195,127	28,555	223,682
Green Power- 2014	237,154	20,052	257,206

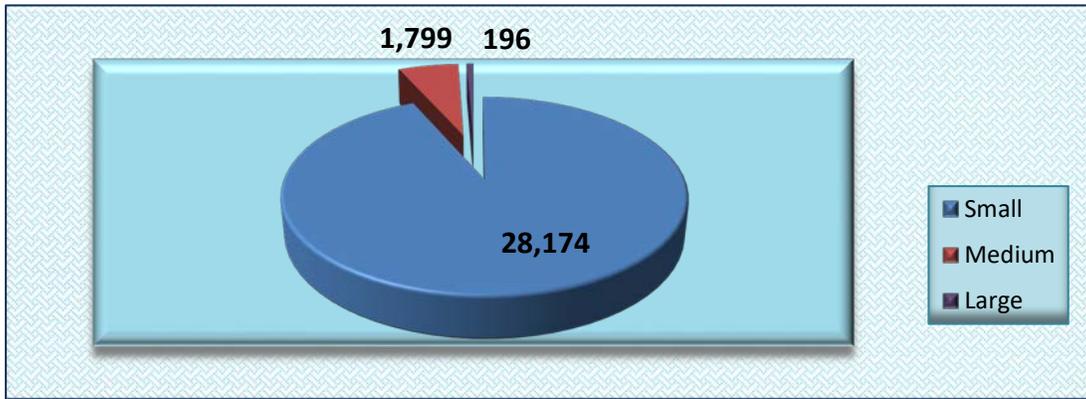
**Figure 22 - EGS Green Power Customer Accounts - 2016
Residential and Non-Residential**



**Table 26 - Number of EGS Green Power Customer Accounts:
2014 Through 2016
Small, Medium and Large Non-Residential***

<i>Program</i>	<i>Number Small Customer Accounts</i>	<i>Number Medium Customer Accounts</i>	<i>Number Large Customer Accounts</i>
Green Power- 2016	28,174	1,799	196
Green Power- 2015	26,451	1,901	203
Green Power- 2014	13,399	6,056	597

**Figure 23 - EGS Green Power Customer Accounts - 2016
Small, Medium and Large Non-Residential**



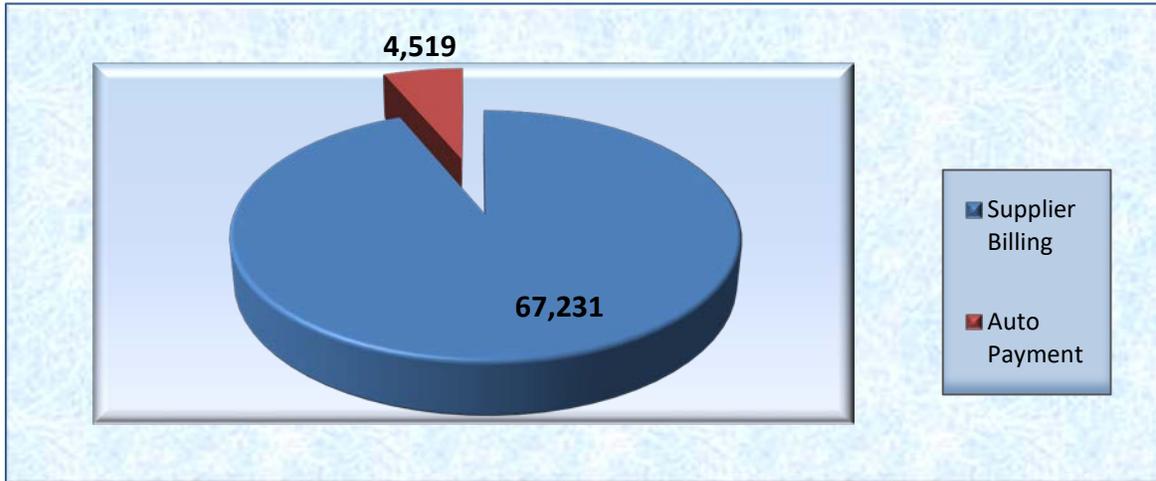
Billing

**Table 27 - Number of EGS Billing Customer Accounts:
2014 Through 2016
Residential and Non-Residential***

<i>Program</i>	<i>Number Residential Customer Accounts</i>	<i>Number Non-Residential Customer Accounts</i>	<i>Total Residential/ Non-Residential Customer Accounts</i>
Supplier Billing- 2016	1,529	65,702	67,231
Auto Payment- 2016	7	4,512	4,519
Supplier Billing- 2015	7,628	73,878	81,506
Auto Payment- 2015	7	2,394	2,401
Supplier Billing- 2014	9,175	59,280	68,455
Auto Payment- 2014	43	2,875	2,918

* Auto Payment customers are a subset of Supplier Billing. Auto Payment customers are billed automatically on credit cards or other automatic payment arrangement. (i.e. bank transfer)

**Figure 24 - EGS Billing Customer Accounts: 2016
Residential and Non-Residential**

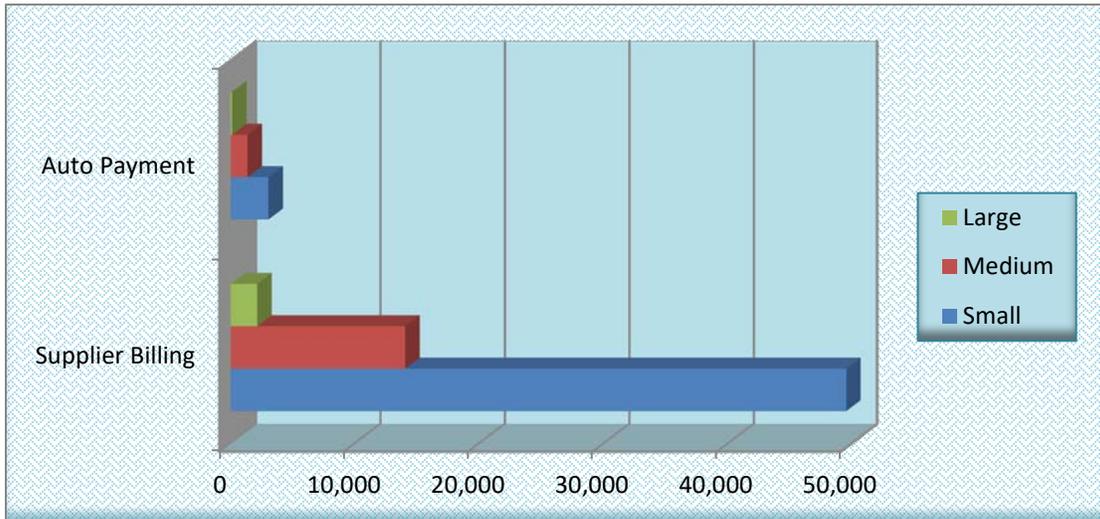


**Table 28 - Number of EGS Billing Customer Accounts:
2014 Through 2016
Small, Medium and Large Non-Residential***

<i>Program</i>	<i>Number Small Customer Accounts</i>	<i>Number Medium Customer Accounts</i>	<i>Number Large Customer Accounts</i>
Supplier Billing- 2016	49,541	14,025	2,136
Auto Payment- 2016	3,038	1,354	120
Supplier Billing- 2015	53,356	17,944	2,578
Auto Payment- 2015	1,489	796	109
Supplier Billing- 2014	42,655	13,996	2,629
Auto Payment- 2014	1,809	855	211

* Auto Payment customers are a subset of Supplier Billing. Auto Payment customers are billed automatically on credit cards or other automatic payment arrangement. (i.e. bank transfer)

**Figure 25 - EGS Billing Customer Accounts - 2016
Small, Medium and Large Non-Residential**



VI. Appendix – Definitions

Active EGS – An EGS that is licensed to provide retail electric generation service and is providing that service to one or more customers.

Flat-Rate Customer Account – A customer account that is charged a fixed, cents-per-kwh rate that changes no more frequently than monthly, excluding seasonal rates.

Green Power Customer Account – A retail customer account incorporating electric power supply that has greater-than-required renewable content, as specified in section 3 of the Alternative Energy Portfolio Standards Act (73 P.S. § 1648.3).

Fixed-Term Contract— A contract which includes an all-inclusive per kWh price that will remain the same for at least three billing cycles or the term of the contract, whichever is longer.

Hourly/Real-Time Rate – A pricing arrangement based on hourly or daily energy prices.

Hybrid-Rate Customer Account – A retail customer account that is charged via an electric generation pricing arrangement that incorporates hourly and block rates.

Seasonal Rates – Rates which differ in summer/non-summer.

Supplier Billing – Includes all customers who are not billed by the utility for the supplier's services. Also includes customers billed by a billing service other than the utility.

Time-of-Use Rate – A rate that changes at different times of the day or night, or at different times during a 24-hour or 7-day period, but not as frequently as each hour, to reflect the costs of serving the customer during different time periods.

Small, Medium and Large Non-Residential Definitions

Citizens Electric Company

Small Non-Residential: General light and power service under 50 kilowatts.

Medium Non-Residential: General light and power service 50 kilowatts minimum.

Large Non-Residential: General light and power service greater than 1,000 kilowatts, at primary voltage.

Duquesne Light Company

Small Non-Residential: Small commercial and industrial customers with maximum registered peak metered demand of less than 25 kilowatts.

Medium Non-Residential: Medium commercial and industrial customers with maximum registered peak metered demand of 25 kilowatts or greater and less than 300 kilowatts.

Large Non-Residential: Large commercial and industrial customers with maximum registered peak metered demand of 300 kilowatts or greater.

UGI Utilities Inc.

Small Non-Residential: Annual peak load < 100 kilowatts.

Medium Non-Residential: N/A.

Large Non-Residential: Annual peak load > than 100 kilowatts.

Annual peak load is defined as the highest one-hour usage in a 12-month period.

Metropolitan Edison Company

Small Non-Residential: Secondary service with monthly usage of 1,500 kilowatt-hours or less.

Medium Non-Residential: Secondary service with monthly usage of greater than 1,500 kilowatt-hours or less than 500 kilowatts.

Large Non-Residential: Primary and Transmission service with monthly demand greater than 400 kilowatts.

Pennsylvania Electric Company

Small Non-Residential: Secondary service with monthly usage of 1,500 kilowatt-hours or less.

Medium Non-Residential: Secondary service with monthly usage greater than 1,500 kilowatt-hours and less than 500 kilowatts.

Large Non-Residential: Primary and Transmission service with monthly demand greater than 400 kilowatts.

Pennsylvania Power Company

Small Non-Residential: Secondary service with monthly usage of 1,500 kilowatt-hours or less.

Medium Non-Residential: Secondary service with monthly usage greater than 1,500 kilowatt-hours and less than 500 kilowatts.

Large Non-Residential: Primary and Transmission service with monthly demand greater than 400 kilowatts.

PECO Energy Company

Small Non-Residential: Registered demand < 100 kilowatts, GS non-demand metered, Lighting.

Medium Non-Residential: 100 kilowatts <= registered demand < 500 kilowatts.

Large Non-Residential: Registered demand >= 500 kilowatts, rate class EP.

Pike County Light and Power Company

Small Non-Residential: Small Commercial and Industrial General Service-Secondary Service and Municipal/Private Lighting.

Medium Non-Residential: N/A

Large Non-Residential: Large Commercial/Industrial – Primary Service.

PPL Electric Utilities Corporation

Small Non-Residential: Secondary voltage level-rate classes: BL, GH-1, GH-2, GS-1, GS-3, IS-1 and Street Lighting.

Medium Non-Residential: Primary voltage level-rate classes: LP-4, IS-P.

Large Non-Residential: Transmission voltage level-rate classes: LP-5, LP-6, LPEP.

Wellsboro Electric Company

Small Non-Residential: Small- Commercial- demand under 7 kilowatts or less.

Medium Non-Residential: Small- Commercial- demand of not less than 7 kilowatts.

Large Non-Residential: Large- Commercial- primary voltage not less than 50 kilowatts.

West Penn Power Company

Small Non-Residential: Rate Schedule 20.

Medium Non-Residential: Rate Schedule 30.

Large Non-Residential: Rate Schedules 35, 40, 44, 46 and Tariff 37.