



Intelometry, Inc.

HISTORICAL TARIFF ANALYSIS

Generation v Delivery

NEISO, NYISO & PJM



Prepared on behalf of:



Submitted by:

Guy Sharfman

Vice President, Market Analytics



5373 W Alabama St.

Suite 400

Houston, TX 77056

Phone - (281) 773-9371

Email: guy.sharfman@intelometry.com

Website: www.intelometry.com

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Table of Contents

I. Executive Summary	4
II. Methodology Overview	5
A. Analysis Inputs	5
B. Analysis Performed.....	6
III. Analysis Results	6
A. ISO Level	6
B. State Level.....	7
IV. Conclusions	8
Appendix	9
NEISO	9
NYISO	12
PJM.....	17

HISTORICAL TARIFF ANALYSIS

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I. Executive Summary

This document provides the analysis methodology and results of a study conducted by Intelometry, Inc. (“Intelometry”) that measured how electric utility tariff prices for residential and small commercial customers have changed over time in NEISO, NYISO and PJM utility service areas where customer choice is available to consumers. More specifically, Intelometry compared the movement of residential and small commercial tariff-based generation prices to the movement of tariff-based delivery prices over years. Since tariff-based generation prices in customer-choice utility service areas are market-based and delivery prices are cost-based, the purpose of the study was to find whether meaningful conclusions can be drawn regarding the price movement of each paradigm. Intelometry conducted the study across numerous customer-choice based utility service areas spanning the three ISOs so that meaningful results can be attained. The utilities included as part of the study are provided in *Table 1* below.

Table 1: ISOs, States & Utilities Included

Utility	State	ISO
MECO	MA	NEISO
NSTAR	MA	NEISO
WMECO	MA	NEISO
Central Maine Power	ME	NEISO
Versant Power (Bangor Hydro District)	ME	NEISO
Liberty (Granite State)	NH	NEISO
PSNH	NH	NEISO
Narragansett Electric	RI	NEISO
Central Hudson	NY	NYISO
ConEd	NY	NYISO
NGRID	NY	NYISO
NYSEG	NY	NYISO
Orange & Rockland	NY	NYISO
RGE	NY	NYISO
Delmarva DE	DE	PJM
ComEd	IL	PJM
Delmarva MD	MD	PJM
PEPCO MD	MD	PJM
AECO	NJ	PJM
JCPL	NJ	PJM
PSEG	NJ	PJM
RECO	NJ	PJM
AEP OH - Columbus Southern	OH	PJM
AEP OH - Ohio Power Company	OH	PJM
CEI	OH	PJM
Dayton Power & Light	OH	PJM
Duke OH	OH	PJM

Ohio Edison	OH	PJM
Toledo Edison	OH	PJM
DQE	PA	PJM
MetEd	PA	PJM
PECO	PA	PJM
Penelec	PA	PJM
Penn Power	PA	PJM
PPL	PA	PJM
West Penn Power	PA	PJM
PEPCO DC	Washington D.C.	PJM

Base Conclusion

With few exceptions, the study found that while tariff-based delivery prices increased significantly over time, generation prices decreased for the equivalent term across utilities surveyed. As such, study results illustrate the benefits that market-based pricing provides consumers when compared to monopoly cost-based pricing.

The remainder of this document provides the methodology employed by Intelometry to conduct the study, as well as study inputs and analysis results. The breakdown of analysis results for each utility, as well as load definition and tariff class are provided in the [Appendix](#) section.

II. Methodology Overview

The study entailed computing generation and delivery costs for a typical residential and small commercial customer in each associated utility service area for a specified term and then comparing the price movement of each paradigm.

A. Analysis Inputs

Analysis Term

The term for the analysis performed was 2011 through 2021 for utilities where tariff prices back to 2011 were available. For utilities where necessary data going back to 2011 was not available, the analysis term began with the earliest full year where data was available and continued through 2021.

Tariff-Based Generation Prices

Tariff-based generation prices were defined as those that recover energy and capacity costs of the associated utility. They generally included default generation service prices not including transmission, along with generation-based adjustment charges and other riders considered by-passable, meaning utility charges that are avoided by customers that opt to receive generation service from a retail electric provider. In customer-choice markets, tariff-based generation prices differ from delivery prices in that they incorporate a market-based component because the utility procures the generation necessary to serve their customers from wholesale providers.

Tariff-Based Delivery Prices

Tariff-based delivery prices were defined as those that recover distribution, transmission, and non-by-passable rider-based charges. These charges encompassed charges mandated by the associated residential and small commercial delivery service tariff for each associated utility. In customer-choice markets, tariff-based delivery prices differ from generation prices in that they are purely cost and regulatory based, and do not incorporate market-based components.

Customer Definitions

Residential customers were defined as those receiving service under an associated utility's basic residential rate, meaning residential customers not receiving service under space heat, water heat, time of use or other specialized residential utility rates. The load of these customers was defined as the utility load profile applicable to the basic residential rate.

Small commercial customers were defined as those receiving service under an associated utility's commercial rate applicable to the smallest commercial customers. Small commercial load was defined as the utility load profile applicable to the small commercial rate applied.

B. Analysis Performed

Tariff-based generation and delivery charges were calculated against load profile-based monthly load figures for each residential and small commercial customer sample. Monthly figures were then converted to annual weighted average prices so the movement of generation and delivery prices can be observed over time.

Study results were then broken down by customer class and utility as well as state and ISO. Intelometry then computed both the total price change for the analysis term, as well as the compounded annual growth rate ("CAGR") in prices for the term.

III. Analysis Results

Intelometry observed that, in the vast majority of cases, generation prices decreased over time while delivery prices increased. This result was observed regardless of customer class. While there were a handful of outliers where either generation prices increased or delivery prices decreased for the analysis term, the movement of generation prices was still more advantageous to the consumer in most cases, meaning generation prices either increased less than or decreased more than delivery prices in terms of percentage.

A. ISO Level

ISO level figures were derived by averaging utility-based analysis results belonging to each ISO. On average, generation prices in each ISO fell for the analysis term, while delivery prices rose significantly. *Table 2* below proves ISO level analysis for the residential customer class, while *Table 3* depicts ISO level analysis results for the small commercial class.

Table 2 – ISO Level Analysis Results for the Residential Customer Class

Generation v Delivery Price Change for Residential Customer Class by ISO				
ISO	Generation		Delivery	
	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period
NEISO	(7.05%)	(1.43%)	27.41%	4.03%
NYISO	(15.96%)	(2.22%)	31.83%	3.47%
PJM	(23.06%)	(3.13%)	46.08%	3.76%

Table 3 – ISO Level Analysis Results for the Small Commercial Customer Class

Generation v Delivery Price Change for Small Commercial Customer Class by ISO				
ISO	Generation		Delivery	
	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period
NEISO	(10.66%)	(2.51%)	20.70%	3.32%
NYISO	(22.61%)	(3.23%)	36.37%	2.92%
PJM	(23.78%)	(3.53%)	46.57%	4.49%

B. State Level

State level figures were derived by averaging utility-based analysis results belonging to each state. In every case but one generation prices decreased for the analysis period, while delivery prices increased. The only exception was Illinois where generation prices for ComEd remained relatively flat albeit increased slightly. Even in the Illinois case, however, delivery prices increased significantly which was consistent with other states, and the increase far outpaced the slight increase in generation. **Table 4** below provides state level analysis results for the residential customer class, while **Table 5** depicts state level analysis results for the small commercial class.

Table 4 – State Level Analysis Results for the Residential Customer Class

Generation v Delivery Price Change for Residential Customer Class by State				
State	Generation		Delivery	
	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period
DE	(48.95%)	(6.50%)	78.73%	5.98%
IL	0.12%	0.02%	9.23%	1.48%
MA	(5.02%)	(1.36%)	30.92%	5.32%

MD	(26.85%)	(3.09%)	88.00%	6.52%
ME	(5.87%)	(1.01%)	12.52%	1.95%
NH	(8.07%)	(1.47%)	22.84%	2.35%
NJ	(30.11%)	(3.99%)	41.79%	3.57%
NY	(22.61%)	(3.23%)	36.37%	2.92%
OH	(13.64%)	(2.63%)	5.99%	1.19%
PA	(25.16%)	(2.93%)	73.68%	5.40%
RI	(13.47%)	(2.38%)	55.82%	7.67%
Washington D.C.	(35.91%)	(4.35%)	71.03%	5.51%

Table 5 – State Level Analysis Results for the Small Commercial Customer Class

Generation v Delivery Price Change for Small Commercial Customer Class by State				
State	Generation		Delivery	
	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period	Total % Change in the Price for Analysis Period	Compounded Annual Growth Rate ("CAGR") for Analysis Period
DE	(48.95%)	(6.50%)	78.73%	5.98%
IL	0.12%	0.02%	9.23%	1.48%
MA	(5.02%)	(1.36%)	30.92%	5.32%
MD	(26.85%)	(3.09%)	88.00%	6.52%
ME	(5.87%)	(1.01%)	12.52%	1.95%
NH	(8.07%)	(1.47%)	22.84%	2.35%
NJ	(30.11%)	(3.99%)	41.79%	3.57%
NY	(17.19%)	(2.67%)	34.83%	3.66%
OH	(13.64%)	(2.63%)	5.99%	1.19%
PA	(25.16%)	(2.93%)	73.68%	5.40%
RI	(13.47%)	(2.38%)	55.82%	7.67%
Washington D.C.	(35.91%)	(4.35%)	71.03%	5.51%

IV. Conclusions

The study illustrated that, in the vast majority of cases, market-based generation prices were either kept in check or decreased over time, while regulated cost-based delivery prices continued to increase, despite regulatory oversight of such costs. This outcome illustrates the benefits that competitive markets offer consumers in the long run. While market pricing can be volatile at times, the forces of supply and demand will provide the product at the most efficient cost to the consumer in the long run.

Appendix

This appendix provides a breakdown of residential and small commercial generation and delivery pricing for each term year. Results are provided by ISO.

NEISO

<p>Utility: NEC Customer Class: Res Tariff Name: Service Classification RS Residential Service A-16 Load Profile: NEC_LP_A16</p> <p>Generation Charges Included: Standard Offer</p> <p>Delivery Charges Included: Total Delivery Charge</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Generation (in \$ per kWh)</th> <th>Delivery (in \$ per kWh)</th> </tr> </thead> <tbody> <tr><td>2015</td><td>\$0.10435</td><td>\$0.08319</td></tr> <tr><td>2016</td><td>\$0.08362</td><td>\$0.09211</td></tr> <tr><td>2017</td><td>\$0.07419</td><td>\$0.10379</td></tr> <tr><td>2018</td><td>\$0.09096</td><td>\$0.10668</td></tr> <tr><td>2019</td><td>\$0.07886</td><td>\$0.11340</td></tr> <tr><td>2020</td><td>\$0.06952</td><td>\$0.12305</td></tr> <tr><td>2021</td><td>\$0.09030</td><td>\$0.12963</td></tr> </tbody> </table> <p>Total % Change: (13.47%) CAGR: (2.38%)</p> <p>55.82% 6.67%</p>	Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)	2015	\$0.10435	\$0.08319	2016	\$0.08362	\$0.09211	2017	\$0.07419	\$0.10379	2018	\$0.09096	\$0.10668	2019	\$0.07886	\$0.11340	2020	\$0.06952	\$0.12305	2021	\$0.09030	\$0.12963	<p>Utility: NEC Customer Class: Com Tariff Name: Service Classification Small C&I Service C-06 Load Profile: NEC_LP_C06</p> <p>Generation Charges Included: Standard Offer</p> <p>Delivery Charges Included: Total Delivery Charge</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Generation (in \$ per kWh)</th> <th>Delivery (in \$ per kWh)</th> </tr> </thead> <tbody> <tr><td>2015</td><td>\$0.10464</td><td>\$0.07679</td></tr> <tr><td>2016</td><td>\$0.08362</td><td>\$0.08631</td></tr> <tr><td>2017</td><td>\$0.07478</td><td>\$0.09665</td></tr> <tr><td>2018</td><td>\$0.09145</td><td>\$0.09804</td></tr> <tr><td>2019</td><td>\$0.09856</td><td>\$0.10644</td></tr> <tr><td>2020</td><td>\$0.08764</td><td>\$0.11669</td></tr> <tr><td>2021</td><td>\$0.08397</td><td>\$0.12326</td></tr> </tbody> </table> <p>Total % Change: (19.75%) CAGR: (3.60%)</p> <p>60.51% 8.21%</p>	Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)	2015	\$0.10464	\$0.07679	2016	\$0.08362	\$0.08631	2017	\$0.07478	\$0.09665	2018	\$0.09145	\$0.09804	2019	\$0.09856	\$0.10644	2020	\$0.08764	\$0.11669	2021	\$0.08397	\$0.12326
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Utility MECO Customer Class Res Tariff Name Regular Residential (R-1) Load Profile MECO_LP_R1	<p style="text-align: center;">MECO RES</p>	Utility MECO Customer Class Com Tariff Name General Service (G-1) Load Profile MECO_LP_G1	<p style="text-align: center;">MECO COM</p>																																																
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Utility PSNH Customer Class Res Tariff Name Residential Delivery Service Rate R Load Profile PSNH_LP_R Generation Charges Included Default Energy Service Rate Delivery Charges Included Distribution Transmission Regulatory Reconciliation Adjustment Charge Stranded Cost Recovery Charge	Utility PSNH Customer Class Com Tariff Name General Delivery Service Rate G Load Profile PSNH_LP_G Generation Charges Included Default Energy Service Rate Delivery Charges Included Distribution Transmission Regulatory Reconciliation Adjustment Charge Stranded Cost Recovery Charge																																																																										
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<p>Utility CH Customer Class Res Tariff Name S.C. No. 1 - Residential Service Load Profile CH_LP_RNH</p> <p>Generation Charges Included Market Price Charge Market Price Adjustment MFC Supply Charge</p> <p>Delivery Charges Included Delivery Charges MFC Administration Charge System Benefits Charges Dynamic Load Management Surcharge New York State Assessment Revenue Tax Surcharge</p>	<p>Utility CH Customer Class Com Tariff Name S.C. No. 2 - General Service - Non-Demand Load Profile CH_LP_ND2</p> <p>Generation Charges Included Market Price Charge Market Price Adjustment MFC Supply Charge</p> <p>Delivery Charges Included Delivery Charges MFC Administration Charge System Benefits Charges Dynamic Load Management Surcharge New York State Assessment Revenue Tax Surcharge</p>
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Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.07115	\$0.06296
2014	\$0.08855	\$0.06365
2015	\$0.07115	\$0.06526
2016	\$0.06292	\$0.07046
2017	\$0.06553	\$0.07871
2018	\$0.07239	\$0.08272
2019	\$0.05851	\$0.09153
2020	\$0.05431	\$0.10014
2021	\$0.07084	\$0.10839

Total % Change	(0.43%)	72.17%
CAGR	(0.05%)	7.03%

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.07249	\$0.01768
2014	\$0.09415	\$0.01849
2015	\$0.07752	\$0.02094
2016	\$0.06608	\$0.02773
2017	\$0.06790	\$0.03554
2018	\$0.07472	\$0.04338
2019	\$0.06169	\$0.05408
2020	\$0.05758	\$0.06449
2021	\$0.07372	\$0.07446

Total % Change	1.70%	321.05%
CAGR	0.21%	19.69%

<p>Utility ConEd Customer Class Res_H Tariff Name S.C. No. 1, Rate 1 - Residential and Religious - Zone H Load Profile CONED_LP_SC1_DE</p> <p>Generation Charges Included MSC Statement MSC Adjustment I MSC Adjustment II Merchant Function Charge Clean Energy Standard</p> <p>Delivery Charges Included Delivery Charges Monthly Adjustment Clause PSL 18-A Assessment System Benefits Charge Dynamic Load Management Surcharge Delivery Revenue Surcharge Tax Sur-Credit/Percentage Increase in Rates and Charges (Inclusive of GRT)</p>	<p>Utility ConEd Customer Class Com_H Tariff Name S.C. No. 2, Rate 1 - General - Small - Zone H Load Profile CONED_LP_SC2_DB</p> <p>Generation Charges Included MSC Statement MSC Adjustment I MSC Adjustment II Merchant Function Charge Clean Energy Standard</p> <p>Delivery Charges Included Delivery Charges Monthly Adjustment Clause PSL 18-A Assessment System Benefits Charge Dynamic Load Management Surcharge Delivery Revenue Surcharge Tax Sur-Credit/Percentage Increase in Rates and Charges (Inclusive of GRT)</p>
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Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.08537	\$0.11823
2014	\$0.10045	\$0.11514
2015	\$0.08295	\$0.11300
2016	\$0.07833	\$0.11611
2017	\$0.08406	\$0.12031
2018	\$0.08586	\$0.12596
2019	\$0.06514	\$0.12532
2020	\$0.05661	\$0.13359
2021	\$0.07175	\$0.14434

Total % Change	(15.96%)	22.09%
CAGR	(2.15%)	2.53%

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.09149	\$0.11869
2014	\$0.12008	\$0.11731
2015	\$0.09940	\$0.11855
2016	\$0.09390	\$0.12163
2017	\$0.09245	\$0.12773
2018	\$0.08532	\$0.13220
2019	\$0.06616	\$0.13143
2020	\$0.05269	\$0.14107
2021	\$0.06838	\$0.15252

Total % Change	(25.26%)	28.50%
CAGR	(3.57%)	3.18%

<p>Utility ConEd Customer Class Res_I Tariff Name S.C. No. 1, Rate 1 - Residential and Religious - Zone I Load Profile CONED_LP_SC1_DE</p> <p>Generation Charges Included MSC Statement MSC Adjustment I MSC Adjustment II Merchant Function Charge Clean Energy Standard</p> <p>Delivery Charges Included Delivery Charges Monthly Adjustment Clause PSL 18-A Assessment System Benefits Charge Dynamic Load Management Surcharge Delivery Revenue Surcharge Tax Sur-Credit/Percentage Increase in Rates and Charges (Inclusive of GRT)</p>	<p>Utility ConEd Customer Class Com_I Tariff Name S.C. No. 2, Rate 1 - General - Small - Zone I Load Profile CONED_LP_SC2_DB</p> <p>Generation Charges Included MSC Statement MSC Adjustment I MSC Adjustment II Merchant Function Charge Clean Energy Standard</p> <p>Delivery Charges Included Delivery Charges Monthly Adjustment Clause PSL 18-A Assessment System Benefits Charge Dynamic Load Management Surcharge Delivery Revenue Surcharge Tax Sur-Credit/Percentage Increase in Rates and Charges (Inclusive of GRT)</p>
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Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.08532	\$0.11823
2014	\$0.10032	\$0.11514
2015	\$0.08290	\$0.11300
2016	\$0.07843	\$0.11611
2017	\$0.08404	\$0.12031
2018	\$0.08612	\$0.12596
2019	\$0.06531	\$0.12532
2020	\$0.05655	\$0.13359
2021	\$0.07179	\$0.14434

Total % Change	(15.86%)	22.09%
CAGR	(2.13%)	2.53%

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.09144	\$0.11869
2014	\$0.11995	\$0.11731
2015	\$0.09934	\$0.11855
2016	\$0.09405	\$0.12163
2017	\$0.09243	\$0.12773
2018	\$0.08561	\$0.13220
2019	\$0.06635	\$0.13143
2020	\$0.05262	\$0.14107
2021	\$0.06839	\$0.15252

Total % Change	(25.20%)	28.50%
CAGR	(3.57%)	3.18%

Utility ConEd
 Customer Class Res_J
 Tariff Name S.C. No. 1, Rate 1 - Residential and Religious - Zone J
 Load Profile CONED_LP_SC1_DE

Generation Charges Included

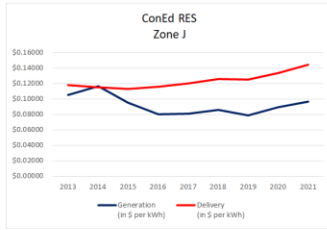
MSC Statement
 MSC Adjustment I
 MSC Adjustment II
 Merchant Function Charge
 Clean Energy Standard

Delivery Charges Included

Delivery Charges
 Monthly Adjustment Clause
 PSL 18-A Assessment
 System Benefits Charge
 Dynamic Load Management Surcharge
 Delivery Revenue Surcharge
 Tax Sur-Credit/Percentage Increase in Rates and Charges (Inclusive of GRT)

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.10536	\$0.11823
2014	\$0.11670	\$0.11514
2015	\$0.09556	\$0.11300
2016	\$0.08002	\$0.11611
2017	\$0.08066	\$0.12031
2018	\$0.08825	\$0.12596
2019	\$0.07881	\$0.12532
2020	\$0.08916	\$0.13359
2021	\$0.09648	\$0.14434

Total % Change (8.42%) 22.09%
 CAGR (1.09%) 2.53%



Utility ConEd
 Customer Class Com_J
 Tariff Name S.C. No. 2, Rate 1 - General - Small - Zone J
 Load Profile CONED_LP_SC2_DB

Generation Charges Included

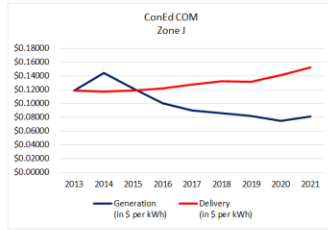
MSC Statement
 MSC Adjustment I
 MSC Adjustment II
 Merchant Function Charge
 Clean Energy Standard

Delivery Charges Included

Delivery Charges
 Monthly Adjustment Clause
 PSL 18-A Assessment
 System Benefits Charge
 Dynamic Load Management Surcharge
 Delivery Revenue Surcharge
 Tax Sur-Credit/Percentage Increase in Rates and Charges (Inclusive of GRT)

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.11871	\$0.11869
2014	\$0.14420	\$0.11731
2015	\$0.12158	\$0.11855
2016	\$0.09987	\$0.12163
2017	\$0.09002	\$0.12773
2018	\$0.08576	\$0.13220
2019	\$0.08184	\$0.13143
2020	\$0.07493	\$0.14107
2021	\$0.08137	\$0.15252

Total % Change (31.45%) 28.50%
 CAGR (4.61%) 3.18%



Utility NIMO
 Customer Class Res_A
 Tariff Name Service Classification RS Residential Service - Zone A
 Load Profile NIMO_LP_SC1

Generation Charges Included

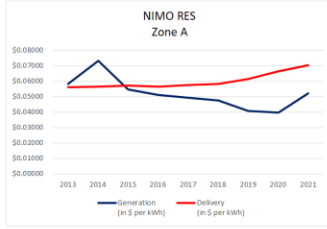
Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included

Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.05832	\$0.05618
2014	\$0.07341	\$0.05669
2015	\$0.05472	\$0.05712
2016	\$0.05118	\$0.05671
2017	\$0.04955	\$0.05773
2018	\$0.04769	\$0.05844
2019	\$0.04070	\$0.06141
2020	\$0.03992	\$0.06669
2021	\$0.05239	\$0.07041

Total % Change (10.16%) 25.34%
 CAGR (1.33%) 2.86%



Utility NIMO
 Customer Class Com_A
 Tariff Name S.C. No. 2, SMALL GENERAL SERVICE - Non Demand - Zone A
 Load Profile NIMO_LP_SC2ND

Generation Charges Included

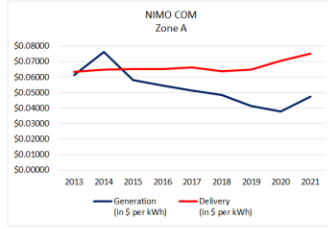
Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included

Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06115	\$0.06357
2014	\$0.07614	\$0.06467
2015	\$0.05795	\$0.06517
2016	\$0.05440	\$0.06519
2017	\$0.05124	\$0.06615
2018	\$0.04856	\$0.06368
2019	\$0.04125	\$0.06494
2020	\$0.03795	\$0.07062
2021	\$0.04749	\$0.07521

Total % Change (22.33%) 18.30%
 CAGR (3.11%) 2.12%



Utility NIMO
 Customer Class Res_B
 Tariff Name Service Classification RS Residential Service - Zone B
 Load Profile NIMO_LP_SC1

Generation Charges Included

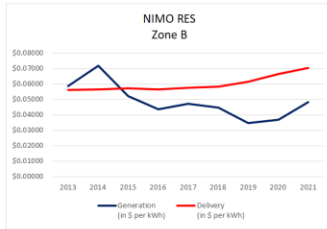
Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included

Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.05857	\$0.05618
2014	\$0.07204	\$0.05669
2015	\$0.05219	\$0.05712
2016	\$0.04377	\$0.05671
2017	\$0.04713	\$0.05773
2018	\$0.04477	\$0.05844
2019	\$0.03489	\$0.06141
2020	\$0.03701	\$0.06669
2021	\$0.04844	\$0.07041

Total % Change (17.30%) 25.34%
 CAGR (2.35%) 2.86%



Utility NIMO
 Customer Class Com_B
 Tariff Name S.C. No. 2, SMALL GENERAL SERVICE - Non Demand - Zone B
 Load Profile NIMO_LP_SC2ND

Generation Charges Included

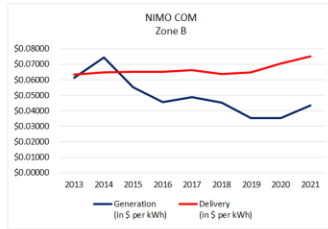
Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included

Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06142	\$0.06357
2014	\$0.07452	\$0.06467
2015	\$0.05529	\$0.06517
2016	\$0.04579	\$0.06519
2017	\$0.04870	\$0.06615
2018	\$0.04513	\$0.06368
2019	\$0.03535	\$0.06494
2020	\$0.03517	\$0.07062
2021	\$0.04358	\$0.07521

Total % Change (29.04%) 18.30%
 CAGR (4.20%) 2.12%



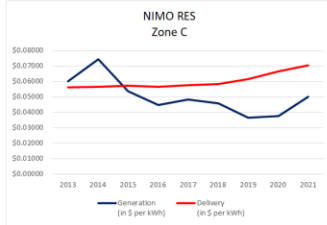
Utility NIMO
 Customer Class Res_C
 Tariff Name Service Classification RS Residential Service - Zone C
 Load Profile NIMO_LP_SC1

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06011	\$0.05618
2014	\$0.07425	\$0.05669
2015	\$0.05372	\$0.05712
2016	\$0.04487	\$0.05673
2017	\$0.04817	\$0.05773
2018	\$0.04586	\$0.05844
2019	\$0.03642	\$0.06141
2020	\$0.03764	\$0.06669
2021	\$0.04994	\$0.07041

Total % Change (16.91%) 25.34%
 CAGR (2.29%) 2.86%



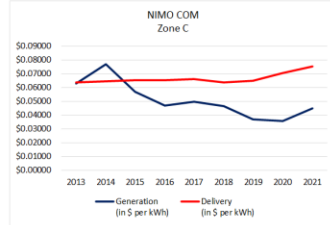
Utility NIMO
 Customer Class Com_C
 Tariff Name S.C. No. 2, SMALL GENERAL SERVICE - Non Demand - Zone C
 Load Profile NIMO_LP_SC2ND

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06306	\$0.06357
2014	\$0.07709	\$0.06467
2015	\$0.05693	\$0.06517
2016	\$0.04697	\$0.06519
2017	\$0.04972	\$0.06615
2018	\$0.04652	\$0.06368
2019	\$0.03672	\$0.06494
2020	\$0.03578	\$0.07062
2021	\$0.04510	\$0.07521

Total % Change (28.48%) 18.30%
 CAGR (4.10%) 2.12%



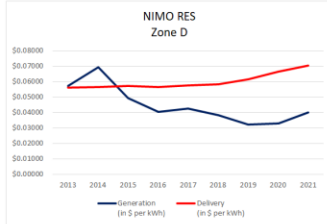
Utility NIMO
 Customer Class Res_D
 Tariff Name Service Classification RS Residential Service - Zone D
 Load Profile NIMO_LP_SC1

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.05724	\$0.05618
2014	\$0.06946	\$0.05669
2015	\$0.04957	\$0.05712
2016	\$0.04036	\$0.05671
2017	\$0.04272	\$0.05773
2018	\$0.03830	\$0.05844
2019	\$0.03230	\$0.06141
2020	\$0.03308	\$0.06669
2021	\$0.04019	\$0.07041

Total % Change (29.79%) 25.34%
 CAGR (4.33%) 2.86%



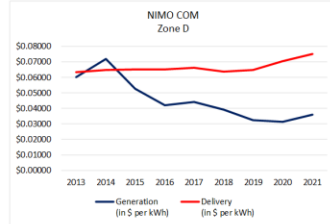
Utility NIMO
 Customer Class Com_D
 Tariff Name S.C. No. 2, SMALL GENERAL SERVICE - Non Demand - Zone D
 Load Profile NIMO_LP_SC2ND

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06008	\$0.06357
2014	\$0.07194	\$0.06467
2015	\$0.05256	\$0.06517
2016	\$0.04216	\$0.06519
2017	\$0.04405	\$0.06615
2018	\$0.03906	\$0.06368
2019	\$0.03253	\$0.06494
2020	\$0.03155	\$0.07062
2021	\$0.03611	\$0.07521

Total % Change (39.90%) 18.30%
 CAGR (6.17%) 2.12%



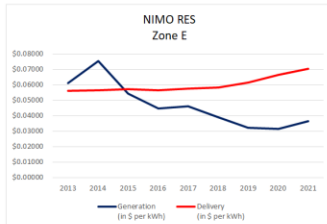
Utility NIMO
 Customer Class Res_E
 Tariff Name Service Classification RS Residential Service - Zone E
 Load Profile NIMO_LP_SC1

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06122	\$0.05618
2014	\$0.07557	\$0.05669
2015	\$0.05442	\$0.05712
2016	\$0.04491	\$0.05671
2017	\$0.04622	\$0.05773
2018	\$0.03896	\$0.05844
2019	\$0.03224	\$0.06141
2020	\$0.03150	\$0.06669
2021	\$0.03662	\$0.07041

Total % Change (40.17%) 25.34%
 CAGR (6.22%) 2.86%



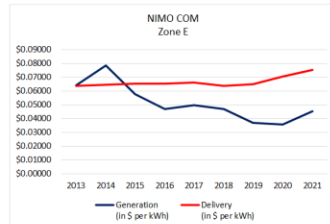
Utility NIMO
 Customer Class Com_E
 Tariff Name S.C. No. 2, SMALL GENERAL SERVICE - Non Demand - Zone E
 Load Profile NIMO_LP_SC2ND

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06421	\$0.06357
2014	\$0.07838	\$0.06467
2015	\$0.05769	\$0.06517
2016	\$0.04692	\$0.06519
2017	\$0.04984	\$0.06615
2018	\$0.04683	\$0.06368
2019	\$0.03693	\$0.06494
2020	\$0.03569	\$0.07062
2021	\$0.04545	\$0.07521

Total % Change (29.21%) 18.30%
 CAGR (4.23%) 2.12%



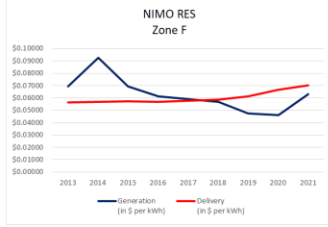
Utility NIMO
 Customer Class Res_F
 Tariff Name Service Classification RS Residential Service - Zone F
 Load Profile NIMO_LP_SC1

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06917	\$0.05618
2014	\$0.09274	\$0.05669
2015	\$0.06924	\$0.05712
2016	\$0.06132	\$0.05673
2017	\$0.05890	\$0.05773
2018	\$0.05706	\$0.05844
2019	\$0.04729	\$0.06141
2020	\$0.04597	\$0.06669
2021	\$0.06300	\$0.07041

Total % Change (8.92%) 25.34%
 CAGR (1.16%) 2.86%



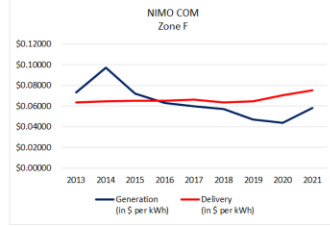
Utility NIMO
 Customer Class Com_F
 Tariff Name S.C. No. 2, SMALL GENERAL SERVICE - Non Demand - Zone F
 Load Profile NIMO_LP_SC2ND

Generation Charges Included
 Electric Supply Cost
 Electric Supply Reconciliation Mechanism
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Incremental State Assessment Surcharge
 Renewable Portfolio Surcharge
 Earnings Adjustment Mechanism
 Dynamic Load Management Surcharge
 Electric Vehicle Make-Ready Surcharge/Revenue Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.07302	\$0.06357
2014	\$0.09722	\$0.06467
2015	\$0.07226	\$0.06517
2016	\$0.06323	\$0.06519
2017	\$0.05986	\$0.06615
2018	\$0.05727	\$0.06368
2019	\$0.04698	\$0.06494
2020	\$0.04412	\$0.07062
2021	\$0.05828	\$0.07521

Total % Change (20.19%) 18.30%
 CAGR (2.78%) 2.12%



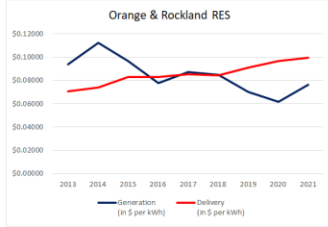
Utility OR
 Customer Class Res
 Tariff Name S.C. No. 1, Residential Service
 Load Profile OR_LP_0003

Generation Charges Included
 MSC Statement
 MSC Adjustment
 ZEC/REC Component
 Merchant Function Charge
 Transition Adj Competitive Services

Delivery Charges Included
 Delivery Charges
 System Benefit Charge
 Dynamic Load Management Surcharge
 Delivery Revenue Surcharge
 Temporary State Assessment Surcharge
 Electric Vehicle Make-Ready Surcharge
 Metropolitan Transportation Authority Business Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.09409	\$0.07080
2014	\$0.11254	\$0.07421
2015	\$0.09664	\$0.08324
2016	\$0.07805	\$0.08297
2017	\$0.08707	\$0.08520
2018	\$0.08508	\$0.08459
2019	\$0.07012	\$0.09122
2020	\$0.06167	\$0.09683
2021	\$0.07660	\$0.09946

Total % Change (18.59%) 40.48%
 CAGR (2.54%) 4.34%



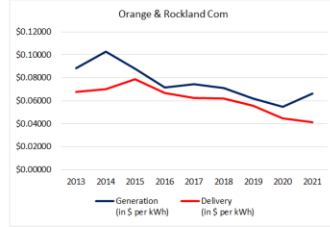
Utility OR
 Customer Class Com
 Tariff Name S.C. No. 2, General Secondary or Primary Service - Non-Demand Metered Service
 Load Profile OR_LP_0018

Generation Charges Included
 MSC Statement
 MSC Adjustment
 ZEC/REC Component
 Merchant Function Charge
 Transition Adj Competitive Services

Delivery Charges Included
 Delivery Charges
 System Benefit Charge
 Dynamic Load Management Surcharge
 Delivery Revenue Surcharge
 Temporary State Assessment Surcharge
 Electric Vehicle Make-Ready Surcharge
 Metropolitan Transportation Authority Business Tax Surcharge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.08816	\$0.06756
2014	\$0.10259	\$0.07034
2015	\$0.08778	\$0.07891
2016	\$0.07271	\$0.08674
2017	\$0.07432	\$0.06263
2018	\$0.07093	\$0.06216
2019	\$0.06219	\$0.05559
2020	\$0.05491	\$0.04470
2021	\$0.06642	\$0.04146

Total % Change (24.66%) (38.63%)
 CAGR (3.48%) (5.92%)



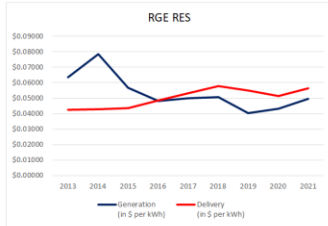
Utility RGE
 Customer Class Res
 Tariff Name S.C. No. 1, Residential Service - ESCO Supply Service (ESS)
 Load Profile RGE_LP_101

Generation Charges Included
 RGE Supply Service
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefit Charge
 Temporary State Assessment Surcharge
 Rate Adjustment Mechanism
 Reliability Support Services Surcharge
 Tax Credit Statement
 Earnings Adjustment Mechanism/Electric Vehicle Make-Ready Surcharge/Tax Surcharge Percentages

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06342	\$0.04342
2014	\$0.07864	\$0.04280
2015	\$0.05663	\$0.04354
2016	\$0.04820	\$0.04868
2017	\$0.05003	\$0.05326
2018	\$0.05075	\$0.05786
2019	\$0.04029	\$0.05499
2020	\$0.04313	\$0.05151
2021	\$0.04961	\$0.05643

Total % Change (21.78%) 33.02%
 CAGR (3.02%) 3.63%



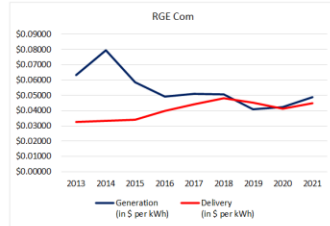
Utility RGE
 Customer Class Com
 Tariff Name S.C. No. 2, General Service - Small Use - ESCO Supply Service (ESS)
 Load Profile RGE_LP_201

Generation Charges Included
 RGE Supply Service
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefit Charge
 Temporary State Assessment Surcharge
 Rate Adjustment Mechanism
 Reliability Support Services Surcharge
 Tax Credit Statement
 Earnings Adjustment Mechanism/Electric Vehicle Make-Ready Surcharge/Tax Surcharge Percentages

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.06331	\$0.03274
2014	\$0.07960	\$0.03314
2015	\$0.05847	\$0.03415
2016	\$0.04914	\$0.03981
2017	\$0.05095	\$0.04413
2018	\$0.05049	\$0.04811
2019	\$0.04080	\$0.04522
2020	\$0.04222	\$0.04133
2021	\$0.04872	\$0.04497

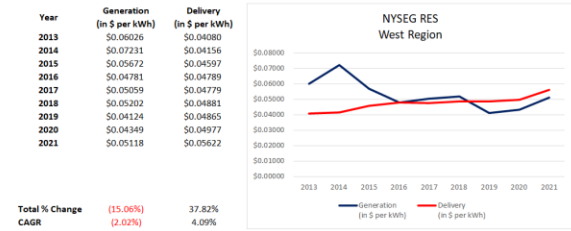
Total % Change (23.05%) 37.36%
 CAGR (3.22%) 4.05%



Utility NYSEG
 Customer Class Res_West
 Tariff Name S.C. No. 1, Residential Service - ESCO Supply Service (ESS) - Zone West
 Load Profile NYSEG_LP_SC1

Generation Charges Included
 NYSEG Supply Service
 Merchant Function Charge

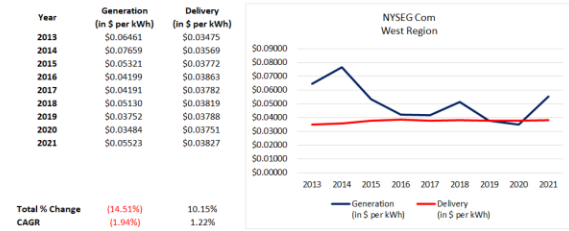
Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Temporary State Assessment Surcharge
 Reliability Support Services Surcharge
 Rate Adjustment Mechanism
 Tax Credit Statement
 Earnings Adjustment Mechanism Electric Vehicle Make-Ready Surcharge Tax Surcharge Percentages



Utility NYSEG
 Customer Class Com_West
 Tariff Name S.C. No. 2, General Service with Demand Metering - ESCO Supply Service (ESS) - West
 Load Profile NYSEG_LP_SC2

Generation Charges Included
 NYSEG Supply Service
 Merchant Function Charge

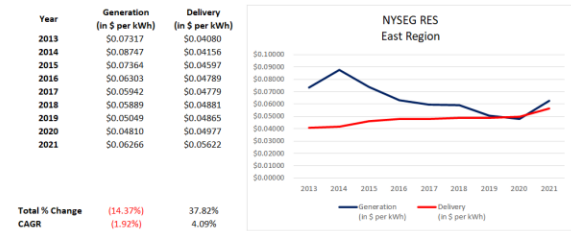
Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Temporary State Assessment Surcharge
 Reliability Support Services Surcharge
 Rate Adjustment Mechanism
 Tax Credit Statement
 Earnings Adjustment Mechanism Electric Vehicle Make-Ready Surcharge Tax Surcharge Percentages



Utility NYSEG
 Customer Class Res_East
 Tariff Name S.C. No. 1, Residential Service - ESCO Supply Service (ESS) - Zone East
 Load Profile NYSEG_LP_SC1

Generation Charges Included
 NYSEG Supply Service
 Merchant Function Charge

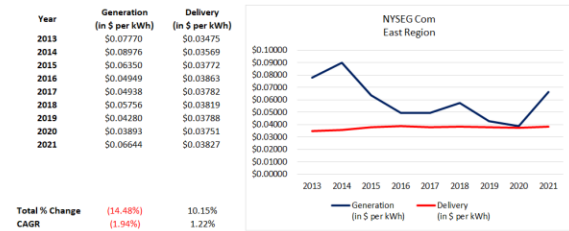
Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Temporary State Assessment Surcharge
 Reliability Support Services Surcharge
 Rate Adjustment Mechanism
 Tax Credit Statement
 Earnings Adjustment Mechanism Electric Vehicle Make-Ready Surcharge Tax Surcharge Percentages



Utility NYSEG
 Customer Class Com_East
 Tariff Name S.C. No. 2, General Service with Demand Metering - ESCO Supply Service (ESS) - Zone East
 Load Profile NYSEG_LP_SC2

Generation Charges Included
 NYSEG Supply Service
 Merchant Function Charge

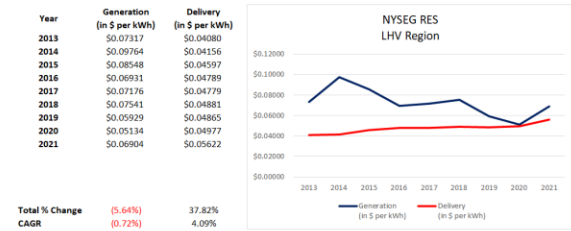
Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Temporary State Assessment Surcharge
 Reliability Support Services Surcharge
 Rate Adjustment Mechanism
 Tax Credit Statement
 Earnings Adjustment Mechanism Electric Vehicle Make-Ready Surcharge Tax Surcharge Percentages



Utility NYSEG
 Customer Class Res_LHV
 Tariff Name S.C. No. 1, Residential Service - ESCO Supply Service (ESS) - Zone Lower Hudson Valley
 Load Profile NYSEG_LP_SC1

Generation Charges Included
 NYSEG Supply Service
 Merchant Function Charge

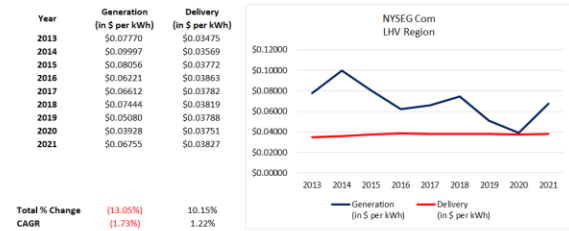
Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Temporary State Assessment Surcharge
 Reliability Support Services Surcharge
 Rate Adjustment Mechanism
 Tax Credit Statement
 Earnings Adjustment Mechanism Electric Vehicle Make-Ready Surcharge Tax Surcharge Percentages



Utility NYSEG
 Customer Class Com_LHV
 Tariff Name S.C. No. 2, General Service with Demand Metering - ESCO Supply Service (ESS) - Zone Lower Hudson Valley
 Load Profile NYSEG_LP_SC2

Generation Charges Included
 NYSEG Supply Service
 Merchant Function Charge

Delivery Charges Included
 Delivery Charges
 System Benefits Charge
 Temporary State Assessment Surcharge
 Reliability Support Services Surcharge
 Rate Adjustment Mechanism
 Tax Credit Statement
 Earnings Adjustment Mechanism Electric Vehicle Make-Ready Surcharge Tax Surcharge Percentages



Utility DQE
Customer Class Res
Tariff Name RS Residential Service
Load Profile DQE_LP_RS

Generation Charges Included
RIDER 8 Supply Charge

Delivery Charges Included
Distribution
Transmission
Consumer Education Surcharge
Retail Market Enhancement Surcharge
Universal Service Charge
Energy Efficiency and Conservation Surcharge
Energy Efficiency and Conservation Surcharge
Phase III Energy Efficiency and Conservation Surcharge
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.07860	\$0.08791
2012	\$0.07860	\$0.09696
2013	\$0.06188	\$0.09404
2014	\$0.06202	\$0.09363
2015	\$0.06781	\$0.09580
2016	\$0.06106	\$0.10425
2017	\$0.05983	\$0.09381
2018	\$0.06169	\$0.09379
2019	\$0.05927	\$0.10601
2020	\$0.05364	\$0.11116
2021	\$0.05406	\$0.11554

Total % Change (31.22%) 31.43%
CAGR (3.67%) 2.77%

Utility DQE
Customer Class Com
Tariff Name GS/GM General Service Small and Medium
Load Profile DQE_LP_GS

Generation Charges Included
RIDER 8 Supply Charge

Delivery Charges Included
Distribution
Transmission
Consumer Education Surcharge
Retail Market Enhancement Surcharge
Universal Service Charge
Energy Efficiency and Conservation Surcharge
Energy Efficiency and Conservation Surcharge
Phase III Energy Efficiency and Conservation Surcharge
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.05753	\$0.05848
2012	\$0.05011	\$0.06101
2013	\$0.04964	\$0.06095
2014	\$0.05576	\$0.06462
2015	\$0.06278	\$0.06607
2016	\$0.05654	\$0.06645
2017	\$0.05364	\$0.06561
2018	\$0.05717	\$0.06697
2019	\$0.05575	\$0.08181
2020	\$0.05094	\$0.08308
2021	\$0.05204	\$0.08535

Total % Change (9.55%) 45.94%
CAGR (1.00%) 3.85%

Utility MetEd
Customer Class Res
Tariff Name RS Residential Service
Load Profile MetEd_LP_RSNNH

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Default Service Support Charge Rider
Distribution System Improvement Charge
Energy Efficiency and Conservation Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.08844	\$0.03646
2012	\$0.07728	\$0.03588
2013	\$0.08610	\$0.04140
2014	\$0.08292	\$0.04227
2015	\$0.07621	\$0.05257
2016	\$0.07003	\$0.05814
2017	\$0.06720	\$0.07050
2018	\$0.06353	\$0.06997
2019	\$0.05997	\$0.07135
2020	\$0.05719	\$0.08366
2021	\$0.06478	\$0.07954

Total % Change (25.06%) 118.14%
CAGR (2.84%) 8.11%

Utility MetEd
Customer Class Com
Tariff Name GS/GM General Service Small and Medium
Load Profile MetEd_LP_GSCS

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Default Service Support Charge Rider
Distribution System Improvement Charge
Energy Efficiency and Conservation Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.08957	\$0.03467
2012	\$0.07635	\$0.03399
2013	\$0.08239	\$0.03896
2014	\$0.07523	\$0.04142
2015	\$0.08133	\$0.05964
2016	\$0.07670	\$0.06928
2017	\$0.06573	\$0.09451
2018	\$0.06387	\$0.09407
2019	\$0.05988	\$0.09374
2020	\$0.05649	\$0.09391
2021	\$0.06636	\$0.09506

Total % Change (25.91%) 174.18%
CAGR (2.96%) 10.61%

Utility Penel
Customer Class Res
Tariff Name RS Residential Service
Load Profile PNELPA_LP_RSNNH

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Efficiency and Conservation Charge
Default Service Support Charge Rider
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.07416	\$0.05243
2012	\$0.06929	\$0.05455
2013	\$0.07723	\$0.05476
2014	\$0.07760	\$0.05359
2015	\$0.07088	\$0.06623
2016	\$0.06821	\$0.07448
2017	\$0.06189	\$0.08974
2018	\$0.06183	\$0.09255
2019	\$0.05760	\$0.08371
2020	\$0.05696	\$0.09326
2021	\$0.06036	\$0.09317

Total % Change (18.60%) 77.71%
CAGR (2.04%) 5.92%

Utility Penel
Customer Class Com
Tariff Name GS/GM General Service Small and Medium
Load Profile PNELPA_LP_GSCS

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Efficiency and Conservation Charge
Default Service Support Charge Rider
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.07730	\$0.03350
2012	\$0.06887	\$0.03376
2013	\$0.07385	\$0.03511
2014	\$0.07758	\$0.03563
2015	\$0.07907	\$0.04987
2016	\$0.07380	\$0.05943
2017	\$0.06524	\$0.07694
2018	\$0.06298	\$0.08116
2019	\$0.06006	\$0.08055
2020	\$0.05612	\$0.07908
2021	\$0.06403	\$0.08095

Total % Change (17.16%) 141.65%
CAGR (1.87%) 9.22%

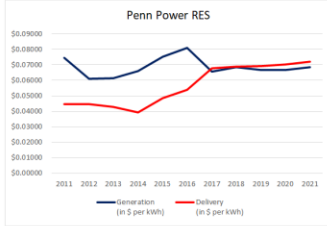
Utility PNPW
Customer Class Res
Tariff Name RS Residential Service
Load Profile PNPW_LP_RG

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Efficiency and Conservation Charge
Default Service Support Charge Rider
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.07477	\$0.04478
2012	\$0.06100	\$0.04460
2013	\$0.06333	\$0.04292
2014	\$0.06608	\$0.03940
2015	\$0.07519	\$0.04869
2016	\$0.08099	\$0.05378
2017	\$0.06552	\$0.06793
2018	\$0.06869	\$0.06888
2019	\$0.06654	\$0.06910
2020	\$0.06667	\$0.07027
2021	\$0.06849	\$0.07228

Total % Change (8.39%) 61.41%
CAGR (0.87%) 4.90%



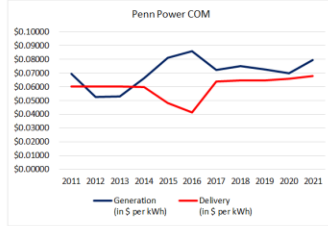
Utility PNPW
Customer Class Com
Tariff Name GS/GM General Service Small and Medium
Load Profile PNPW_LP_CG

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Efficiency and Conservation Charge
Default Service Support Charge Rider
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.06944	\$0.06008
2012	\$0.05261	\$0.06021
2013	\$0.05286	\$0.06016
2014	\$0.06631	\$0.05988
2015	\$0.08122	\$0.04825
2016	\$0.08604	\$0.04147
2017	\$0.07242	\$0.06387
2018	\$0.07520	\$0.06458
2019	\$0.07289	\$0.06451
2020	\$0.07001	\$0.06581
2021	\$0.07949	\$0.06802

Total % Change 14.48% 13.22%
CAGR 1.36% 1.25%



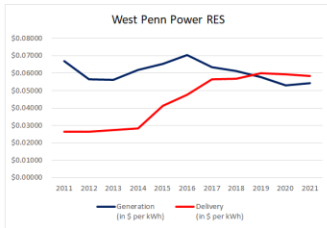
Utility WPNPW
Customer Class Res
Tariff Name RS Residential Service
Load Profile WPNPW_LP_RSNH

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Efficiency and Conservation Charge
Default Service Support Charge Rider
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.06709	\$0.02641
2012	\$0.05639	\$0.02941
2013	\$0.05613	\$0.02748
2014	\$0.06183	\$0.02821
2015	\$0.06549	\$0.04136
2016	\$0.07059	\$0.04754
2017	\$0.06339	\$0.05646
2018	\$0.06135	\$0.05671
2019	\$0.05783	\$0.06006
2020	\$0.05313	\$0.05948
2021	\$0.05425	\$0.05833

Total % Change (19.15%) 120.89%
CAGR (2.10%) 8.25%



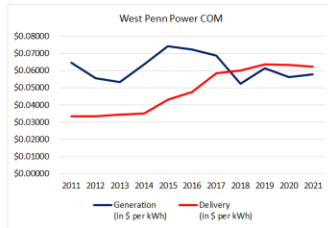
Utility WPNPW
Customer Class Com
Tariff Name GS/GM General Service Small and Medium
Load Profile WPNPW_LP_GSCS

Generation Charges Included
Price to Compare Default Service Rate Rider

Delivery Charges Included
Distribution
Universal Service Charge
Efficiency and Conservation Charge
Default Service Support Charge Rider
Distribution System Improvement Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.06470	\$0.03360
2012	\$0.05568	\$0.03360
2013	\$0.05338	\$0.03444
2014	\$0.06367	\$0.03515
2015	\$0.07416	\$0.04313
2016	\$0.07222	\$0.04753
2017	\$0.06869	\$0.05851
2018	\$0.05222	\$0.05994
2019	\$0.06130	\$0.06360
2020	\$0.05619	\$0.06344
2021	\$0.05784	\$0.06227

Total % Change (10.60%) 85.35%
CAGR (1.11%) 6.37%



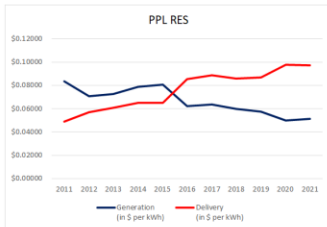
Utility PPL
Customer Class Res
Tariff Name RS Residential Service
Load Profile PPL_LP_RS-GRS

Generation Charges Included
Generation Supply Charge

Delivery Charges Included
Distribution
Transmission
Universal Service Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.08335	\$0.04896
2012	\$0.07057	\$0.05695
2013	\$0.07246	\$0.06075
2014	\$0.07881	\$0.06501
2015	\$0.08087	\$0.06512
2016	\$0.06213	\$0.08527
2017	\$0.06370	\$0.08875
2018	\$0.05959	\$0.08595
2019	\$0.05725	\$0.08678
2020	\$0.04971	\$0.09748
2021	\$0.05144	\$0.09717

Total % Change (38.28%) 98.47%
CAGR (4.71%) 7.10%



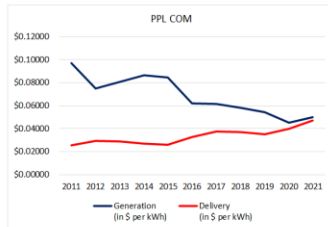
Utility PPL
Customer Class Com
Tariff Name GS/GM General Service Small and Medium
Load Profile PPL_LP_GS1

Generation Charges Included
Generation Supply Charge

Delivery Charges Included
Distribution
Transmission
Universal Service Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.09717	\$0.02561
2012	\$0.07495	\$0.02951
2013	\$0.08047	\$0.02911
2014	\$0.08056	\$0.02715
2015	\$0.08467	\$0.02624
2016	\$0.06177	\$0.03279
2017	\$0.06139	\$0.03730
2018	\$0.05801	\$0.03694
2019	\$0.05421	\$0.03526
2020	\$0.04541	\$0.03988
2021	\$0.04977	\$0.04705

Total % Change (48.78%) 83.73%
CAGR (6.47%) 6.27%



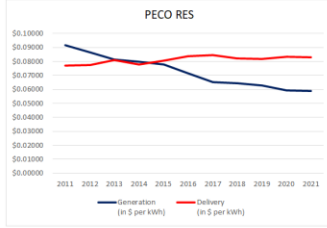
Utility PECO
 Customer Class Res
 Tariff Name RS Residential Service
 Load Profile PECO_LP_R111

Generation Charges Included
 Generation Supply Adjustment

Delivery Charges Included
 Distribution
 Transmission
 Energy Efficiency and Conservation
 Distribution System Improvement
 Universal Service Fund

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.09150	\$0.07727
2012	\$0.08646	\$0.07732
2013	\$0.08155	\$0.08113
2014	\$0.08002	\$0.07798
2015	\$0.07793	\$0.08083
2016	\$0.07150	\$0.08367
2017	\$0.06535	\$0.08451
2018	\$0.06457	\$0.08206
2019	\$0.06282	\$0.08198
2020	\$0.05934	\$0.08334
2021	\$0.05907	\$0.08320

Total % Change (35.44%) 7.67%
 CAGR (4.28%) 0.74%



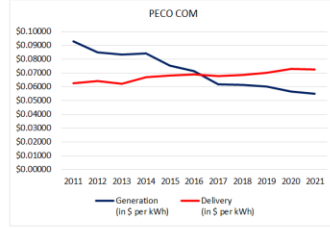
Utility PECO
 Customer Class Com
 Tariff Name GS/GM General Service Small and Medium
 Load Profile PECO_LP_G5107

Generation Charges Included
 Generation Supply Adjustment

Delivery Charges Included
 Distribution
 Transmission
 Energy Efficiency and Conservation
 Distribution System Improvement
 Universal Service Fund

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.09267	\$0.06238
2012	\$0.08467	\$0.06416
2013	\$0.08335	\$0.06224
2014	\$0.08394	\$0.06669
2015	\$0.07540	\$0.06817
2016	\$0.07108	\$0.06901
2017	\$0.06151	\$0.06750
2018	\$0.06133	\$0.06837
2019	\$0.06006	\$0.07010
2020	\$0.05637	\$0.07267
2021	\$0.05477	\$0.07241

Total % Change (40.90%) 16.09%
 CAGR (5.12%) 1.50%



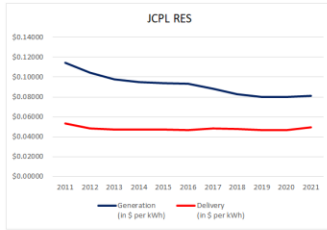
Utility JCP
 Customer Class Res
 Tariff Name Service Classification RS Residential Service
 Load Profile JCP_LP_RSNH

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Rider NGC Non-utility Generation Charge
 Rider SBC Societal Benefits Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.11438	\$0.05320
2012	\$0.10469	\$0.04818
2013	\$0.09798	\$0.04780
2014	\$0.09512	\$0.04750
2015	\$0.09382	\$0.04731
2016	\$0.09340	\$0.04656
2017	\$0.08861	\$0.04866
2018	\$0.08294	\$0.04811
2019	\$0.07987	\$0.04653
2020	\$0.07994	\$0.04698
2021	\$0.08086	\$0.04928

Total % Change (29.31%) (7.37%)
 CAGR (3.41%) (0.76%)



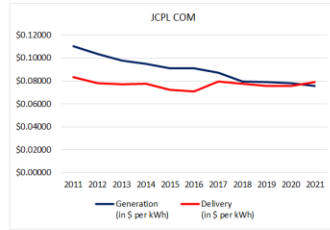
Utility JCP
 Customer Class Com
 Tariff Name Service Classification GS General Service Secondary
 Load Profile JCP_LP_GSCS

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Rider NGC Non-utility Generation Charge
 Rider SBC Societal Benefits Charge

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.11028	\$0.08343
2012	\$0.10375	\$0.07832
2013	\$0.09785	\$0.07733
2014	\$0.09494	\$0.07754
2015	\$0.09128	\$0.07244
2016	\$0.09119	\$0.07096
2017	\$0.08737	\$0.07968
2018	\$0.07952	\$0.07775
2019	\$0.07893	\$0.07552
2020	\$0.07807	\$0.07576
2021	\$0.07548	\$0.07897

Total % Change (31.55%) (5.35%)
 CAGR (3.72%) (0.35%)



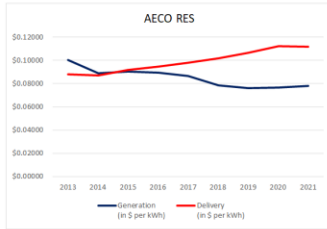
Utility AECO
 Customer Class Res
 Tariff Name Rate Schedule RS Residential Service
 Load Profile AECO_LP_NIARS

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Rider SEC Securitization - Transiation
 Rider SEC Securitization - MTC Tax
 Rider (NGC) Non-Utility Generation Charge
 Rider (SBC) Societal Benefits Charges
 Rider IIP- Infrastructure Investment Program

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.10021	\$0.08824
2014	\$0.08915	\$0.08730
2015	\$0.09034	\$0.09202
2016	\$0.08947	\$0.09492
2017	\$0.08670	\$0.09816
2018	\$0.07857	\$0.10192
2019	\$0.07613	\$0.10676
2020	\$0.07653	\$0.11254
2021	\$0.07824	\$0.11206

Total % Change (21.93%) 27.00%
 CAGR (3.05%) 3.03%



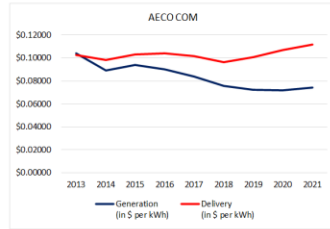
Utility AECO
 Customer Class Com
 Tariff Name Rate Schedule MGS-Secondary (Monthly General Service)
 Load Profile AECO_LP_NIAMS

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Rider SEC Securitization - Transiation
 Rider SEC Securitization - MTC Tax
 Rider (NGC) Non-Utility Generation Charge
 Rider (SBC) Societal Benefits Charges
 Rider IIP- Infrastructure Investment Program

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2013	\$0.10384	\$0.10287
2014	\$0.08909	\$0.09808
2015	\$0.09389	\$0.10306
2016	\$0.09007	\$0.10407
2017	\$0.08362	\$0.10179
2018	\$0.07591	\$0.09643
2019	\$0.07253	\$0.10086
2020	\$0.07185	\$0.10699
2021	\$0.07421	\$0.11190

Total % Change (28.53%) 8.78%
 CAGR (4.11%) 1.06%



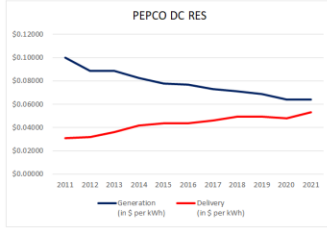
Utility PEPDC
 Customer Class Res
 Tariff Name Service Classification RS Residential Service
 Load Profile PEPDC_DC_LP_RDNS

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Administrative Credit
 Public Space Occupancy Surcharge
 Residential Aid Discount Surcharge Rider
 Sustainable Energy Trust Fund
 Energy Assistance Trust Fund
 Underground Project Charge Rider
 Underground Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.10020	\$0.03097
2012	\$0.08854	\$0.03184
2013	\$0.08884	\$0.03637
2014	\$0.08256	\$0.04162
2015	\$0.07773	\$0.04357
2016	\$0.07707	\$0.04367
2017	\$0.07325	\$0.04612
2018	\$0.07102	\$0.04954
2019	\$0.06888	\$0.04946
2020	\$0.06394	\$0.04812
2021	\$0.06422	\$0.05296

Total % Change (35.91%) 71.03%
 CAGR (4.35%) 5.51%



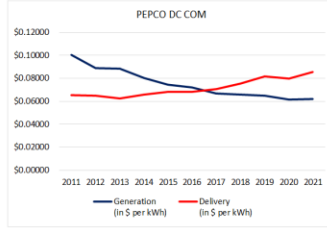
Utility PEPDC
 Customer Class Com
 Tariff Name Service Classification GS ND General Service Non Demand
 Load Profile PEPDC_MD_LP_MOND

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Administrative Credit
 Public Space Occupancy Surcharge
 Residential Aid Discount Surcharge Rider
 Sustainable Energy Trust Fund
 Energy Assistance Trust Fund
 Underground Project Charge Rider
 Underground Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.10013	\$0.06542
2012	\$0.08882	\$0.06498
2013	\$0.08832	\$0.06255
2014	\$0.08033	\$0.06405
2015	\$0.07432	\$0.06802
2016	\$0.07182	\$0.06802
2017	\$0.06684	\$0.07081
2018	\$0.06589	\$0.07519
2019	\$0.06481	\$0.08143
2020	\$0.06163	\$0.07962
2021	\$0.06217	\$0.08566

Total % Change (37.91%) 30.94%
 CAGR (4.65%) 2.73%



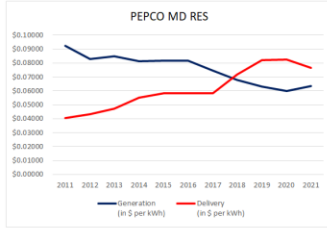
Utility PEPMD
 Customer Class Res
 Tariff Name Service Classification RS Residential Service
 Load Profile PEPDC_MD_LP_RMNS

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Administrative Credit - AC (in \$ per kWh)
 E-MD- EMPOWER MD CHARGE
 DRS- DEMAND RESOURCE SURCHARGE
 GRC- GRID RESILIENCY CHARGE RIDER
 USC- Universal Service Charge
 MES- Maryland Environmental Surcharge
 ERR- ECONOMIC RELIEF AND RECOVERY RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.09222	\$0.04040
2012	\$0.08303	\$0.04335
2013	\$0.08481	\$0.04738
2014	\$0.08130	\$0.05510
2015	\$0.08172	\$0.05853
2016	\$0.08165	\$0.05851
2017	\$0.07450	\$0.05825
2018	\$0.06781	\$0.07175
2019	\$0.06305	\$0.08206
2020	\$0.06012	\$0.08262
2021	\$0.06347	\$0.07643

Total % Change (31.17%) 89.19%
 CAGR (3.67%) 6.58%



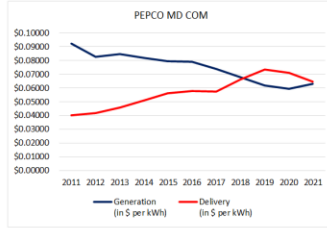
Utility PEPMD
 Customer Class Com
 Tariff Name Service Classification GS General Service
 Load Profile PEPDC_MD_LP_MOND

Generation Charges Included
 Basic Generation Service

Delivery Charges Included
 Distribution
 Transmission
 Administrative Credit - AC (in \$ per kWh)
 E-MD- EMPOWER MD CHARGE
 DRS- DEMAND RESOURCE SURCHARGE
 GRC- GRID RESILIENCY CHARGE RIDER
 USC- Universal Service Charge
 MES- Maryland Environmental Surcharge
 ERR- ECONOMIC RELIEF AND RECOVERY RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.09236	\$0.04021
2012	\$0.08268	\$0.04188
2013	\$0.08463	\$0.04590
2014	\$0.08207	\$0.05122
2015	\$0.07946	\$0.05617
2016	\$0.07920	\$0.05765
2017	\$0.07397	\$0.05733
2018	\$0.06770	\$0.06636
2019	\$0.06203	\$0.07331
2020	\$0.05955	\$0.07094
2021	\$0.06311	\$0.06449

Total % Change (31.67%) 60.39%
 CAGR (3.74%) 4.84%



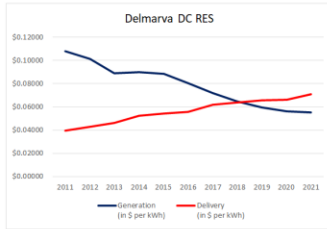
Utility DPLDE
 Customer Class Res
 Tariff Name RES Residential
 Load Profile DLMRV_DE_LP_DEDRS

Generation Charges Included
 Standard Offer Service

Delivery Charges Included
 Distribution
 Transmission
 Renewable Portfolio Standard Charge
 ENERGY EFFICIENCY SURCHARGE RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.10811	\$0.03972
2012	\$0.10129	\$0.04286
2013	\$0.08908	\$0.04648
2014	\$0.08987	\$0.05233
2015	\$0.08832	\$0.05431
2016	\$0.08040	\$0.05593
2017	\$0.07178	\$0.06207
2018	\$0.06455	\$0.06376
2019	\$0.05973	\$0.06554
2020	\$0.05635	\$0.06634
2021	\$0.05519	\$0.07097

Total % Change (48.95%) 78.73%
 CAGR (6.50%) 5.98%



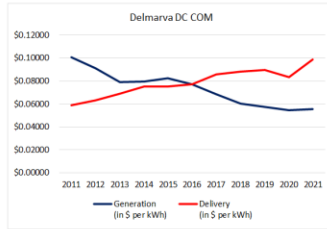
Utility DPLDE
 Customer Class Com
 Tariff Name SGS
 Load Profile DLMRV_DE_LP_DEDGN

Generation Charges Included
 Standard Offer Service

Delivery Charges Included
 Distribution
 Transmission
 Renewable Portfolio Standard Charge
 ENERGY EFFICIENCY SURCHARGE RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.10082	\$0.06859
2012	\$0.09095	\$0.06303
2013	\$0.07914	\$0.06875
2014	\$0.07962	\$0.07500
2015	\$0.08232	\$0.07515
2016	\$0.07699	\$0.07712
2017	\$0.06835	\$0.08593
2018	\$0.06014	\$0.08808
2019	\$0.05731	\$0.08967
2020	\$0.05453	\$0.08356
2021	\$0.05525	\$0.09877

Total % Change (45.20%) 68.58%
 CAGR (5.84%) 5.36%



Utility RECO Customer Class Res Tariff Name Residential Service (Service Classification No. 1 Residential Service) Load Profile RECO_LP_RC301_STRATA_2 Generation Charges Included Basic Generation Service Delivery Charges Included Distribution Transmission	Utility RECO Customer Class Com Tariff Name General Service (Service Classification No. 2 General Service) Load Profile RECO_LP_RC102_STRATA_1 Generation Charges Included Basic Generation Service Delivery Charges Included Distribution Transmission																																																												
<table border="1"> <thead> <tr> <th>Year</th> <th>Generation (in \$ per kWh)</th> <th>Delivery (in \$ per kWh)</th> </tr> </thead> <tbody> <tr><td>2013</td><td>\$0.10181</td><td>\$0.06330</td></tr> <tr><td>2014</td><td>\$0.09776</td><td>\$0.07129</td></tr> <tr><td>2015</td><td>\$0.08621</td><td>\$0.07645</td></tr> <tr><td>2016</td><td>\$0.07645</td><td>\$0.07739</td></tr> <tr><td>2017</td><td>\$0.08371</td><td>\$0.07755</td></tr> <tr><td>2018</td><td>\$0.08326</td><td>\$0.07957</td></tr> <tr><td>2019</td><td>\$0.06433</td><td>\$0.08170</td></tr> <tr><td>2020</td><td>\$0.05683</td><td>\$0.11485</td></tr> <tr><td>2021</td><td>\$0.06256</td><td>\$0.09077</td></tr> </tbody> </table> <p>Total % Change (38.56%) 43.41% CAGR (5.91%) 4.61%</p>	Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)	2013	\$0.10181	\$0.06330	2014	\$0.09776	\$0.07129	2015	\$0.08621	\$0.07645	2016	\$0.07645	\$0.07739	2017	\$0.08371	\$0.07755	2018	\$0.08326	\$0.07957	2019	\$0.06433	\$0.08170	2020	\$0.05683	\$0.11485	2021	\$0.06256	\$0.09077	<table border="1"> <thead> <tr> <th>Year</th> <th>Generation (in \$ per kWh)</th> <th>Delivery (in \$ per kWh)</th> </tr> </thead> <tbody> <tr><td>2013</td><td>\$0.08925</td><td>\$0.05751</td></tr> <tr><td>2014</td><td>\$0.08839</td><td>\$0.05979</td></tr> <tr><td>2015</td><td>\$0.07461</td><td>\$0.06725</td></tr> <tr><td>2016</td><td>\$0.06243</td><td>\$0.06705</td></tr> <tr><td>2017</td><td>\$0.06864</td><td>\$0.06526</td></tr> <tr><td>2018</td><td>\$0.06822</td><td>\$0.06429</td></tr> <tr><td>2019</td><td>\$0.05114</td><td>\$0.06390</td></tr> <tr><td>2020</td><td>\$0.04604</td><td>\$0.05917</td></tr> <tr><td>2021</td><td>\$0.05458</td><td>\$0.06492</td></tr> </tbody> </table> <p>Total % Change (38.84%) 12.88% CAGR (5.96%) 1.53%</p>	Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)	2013	\$0.08925	\$0.05751	2014	\$0.08839	\$0.05979	2015	\$0.07461	\$0.06725	2016	\$0.06243	\$0.06705	2017	\$0.06864	\$0.06526	2018	\$0.06822	\$0.06429	2019	\$0.05114	\$0.06390	2020	\$0.04604	\$0.05917	2021	\$0.05458	\$0.06492
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Utility CEI Customer Class Res Tariff Name Residential Service Schedule R Load Profile CEI_LP_RG Generation Charges Included Generation & Capacity Delivery Charges Included Distribution Non-Distribution Uncollectible Rider Rider RDC - Residential Distribution Credit Rider Rider USF - Universal Service Fund Rider Rider DSI - Delivery Service Improvement Rider Rider DSE - Demand Side Management and Energy Efficiency Rider Rider CSR - Conservation Support Rider Rider CRC - Consumer Rate Credit Rider	Utility CEI Customer Class Com Tariff Name General Service Schedule GS Load Profile CEI_LP_CG Generation Charges Included Generation & Capacity Delivery Charges Included Distribution Non-Distribution Uncollectible Rider Rider RDC - Residential Distribution Credit Rider Rider USF - Universal Service Fund Rider Rider DSI - Delivery Service Improvement Rider Rider DSE - Demand Side Management and Energy Efficiency Rider Rider CSR - Conservation Support Rider Rider CRC - Consumer Rate Credit Rider																																																																		
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2021	\$0.05045	\$0.02275																																																																	

Utility OE Customer Class Res Tariff Name Residential Service Schedule R Load Profile OE_LP_RG Generation Charges Included Generation & Capacity Delivery Charges Included Distribution Non-Distribution Uncollectible Rider Rider RDC - Residential Distribution Credit Rider Rider USF - Universal Service Fund Rider Rider DSI - Delivery Service Improvement Rider Rider DSE - Demand Side Management and Energy Efficiency Rider Rider CSR - Conservation Support Rider Rider CRC - Consumer Rate Credit Rider	Utility OE Customer Class Com Tariff Name General Service Schedule GS Load Profile OE_LP_RG Generation Charges Included Generation & Capacity Delivery Charges Included Distribution Non-Distribution Uncollectible Rider Rider RDC - Residential Distribution Credit Rider Rider USF - Universal Service Fund Rider Rider DSI - Delivery Service Improvement Rider Rider DSE - Demand Side Management and Energy Efficiency Rider Rider CSR - Conservation Support Rider Rider CRC - Consumer Rate Credit Rider																																																																		
<table border="1"> <thead> <tr> <th>Year</th> <th>Generation (in \$ per kWh)</th> <th>Delivery (in \$ per kWh)</th> </tr> </thead> <tbody> <tr><td>2012</td><td>\$0.06095</td><td>\$0.03786</td></tr> <tr><td>2013</td><td>\$0.06048</td><td>\$0.03430</td></tr> <tr><td>2014</td><td>\$0.06476</td><td>\$0.03521</td></tr> <tr><td>2015</td><td>\$0.06959</td><td>\$0.03555</td></tr> <tr><td>2016</td><td>\$0.06122</td><td>\$0.03793</td></tr> <tr><td>2017</td><td>\$0.05604</td><td>\$0.03648</td></tr> <tr><td>2018</td><td>\$0.05594</td><td>\$0.03605</td></tr> <tr><td>2019</td><td>\$0.05389</td><td>\$0.03742</td></tr> <tr><td>2020</td><td>\$0.05027</td><td>\$0.03682</td></tr> <tr><td>2021</td><td>\$0.05172</td><td>\$0.03079</td></tr> </tbody> </table> <p>Total % Change (15.13%) (18.78%) CAGR (1.81%) (2.28%)</p>	Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)	2012	\$0.06095	\$0.03786	2013	\$0.06048	\$0.03430	2014	\$0.06476	\$0.03521	2015	\$0.06959	\$0.03555	2016	\$0.06122	\$0.03793	2017	\$0.05604	\$0.03648	2018	\$0.05594	\$0.03605	2019	\$0.05389	\$0.03742	2020	\$0.05027	\$0.03682	2021	\$0.05172	\$0.03079	<table border="1"> <thead> <tr> <th>Year</th> <th>Generation (in \$ per kWh)</th> <th>Delivery (in \$ per kWh)</th> </tr> </thead> <tbody> <tr><td>2012</td><td>\$0.06165</td><td>\$0.02984</td></tr> <tr><td>2013</td><td>\$0.06056</td><td>\$0.02874</td></tr> <tr><td>2014</td><td>\$0.06633</td><td>\$0.02731</td></tr> <tr><td>2015</td><td>\$0.07212</td><td>\$0.02874</td></tr> <tr><td>2016</td><td>\$0.06372</td><td>\$0.02940</td></tr> <tr><td>2017</td><td>\$0.05600</td><td>\$0.02845</td></tr> <tr><td>2018</td><td>\$0.05582</td><td>\$0.02729</td></tr> <tr><td>2019</td><td>\$0.05456</td><td>\$0.02907</td></tr> <tr><td>2020</td><td>\$0.05132</td><td>\$0.02935</td></tr> <tr><td>2021</td><td>\$0.05072</td><td>\$0.02536</td></tr> </tbody> </table> <p>Total % Change (17.73%) (15.01%) CAGR (2.15%) (1.79%)</p>	Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)	2012	\$0.06165	\$0.02984	2013	\$0.06056	\$0.02874	2014	\$0.06633	\$0.02731	2015	\$0.07212	\$0.02874	2016	\$0.06372	\$0.02940	2017	\$0.05600	\$0.02845	2018	\$0.05582	\$0.02729	2019	\$0.05456	\$0.02907	2020	\$0.05132	\$0.02935	2021	\$0.05072	\$0.02536
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2019	\$0.05389	\$0.03742																																																																	
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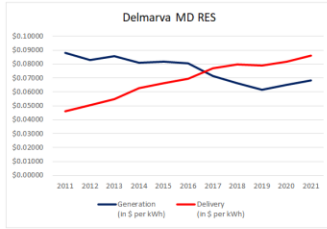
Utility DPLMD
 Customer Class Res
 Tariff Name Residential "R"
 Load Profile DLMRV_MD_LP_MDDRS

Generation Charges Included
 Standard Offer

Delivery Charges Included
 Distribution
 Transmission
 Environmental Surcharge
 Administrative Credit
 RIDER "EMD" Empower Md. Charge
 RIDER "DRS" Demand Resource Surcharge
 RIDER "GRC" Grid Resiliency Charge Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.08806	\$0.04599
2012	\$0.08372	\$0.05027
2013	\$0.08574	\$0.05484
2014	\$0.08074	\$0.06273
2015	\$0.08156	\$0.06638
2016	\$0.08072	\$0.06994
2017	\$0.07238	\$0.07706
2018	\$0.06628	\$0.07967
2019	\$0.06146	\$0.07902
2020	\$0.06513	\$0.08185
2021	\$0.06823	\$0.08592

Total % Change (22.52%) 86.82%
 CAGR (2.52%) 6.45%



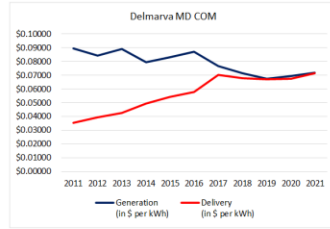
Utility DPLMD
 Customer Class Com
 Tariff Name Small General Service - Secondary Service "SGS-5"
 Load Profile DLMRV_MD_LP_MDDGS

Generation Charges Included
 Standard Offer

Delivery Charges Included
 Distribution
 Transmission
 Environmental Surcharge
 Administrative Credit
 RIDER "EMD" Empower Md. Charge
 RIDER "DRS" Demand Resource Surcharge
 RIDER "GRC" Grid Resiliency Charge Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.08966	\$0.03520
2012	\$0.08441	\$0.03920
2013	\$0.08895	\$0.04278
2014	\$0.07967	\$0.04926
2015	\$0.08327	\$0.05426
2016	\$0.08710	\$0.05798
2017	\$0.07661	\$0.07039
2018	\$0.07152	\$0.06769
2019	\$0.06741	\$0.06725
2020	\$0.06946	\$0.06756
2021	\$0.07192	\$0.07159

Total % Change (19.79%) 103.38%
 CAGR (2.18%) 7.36%



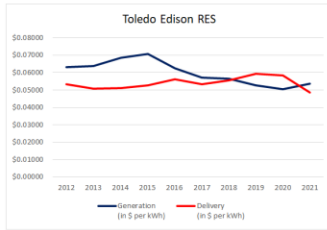
Utility TE
 Customer Class Res
 Tariff Name Residential Service Schedule R
 Load Profile TE_LP_RG

Generation Charges Included
 Generation & Capacity

Delivery Charges Included
 Distribution
 Non-Distribution Uncollectible Rider
 Rider RDC - Residential Distribution Credit Rider
 Rider USE - Universal Service Fund Rider
 Rider DSI - Delivery Service Improvement Rider
 Rider DSE - Demand Side Management and Energy Efficiency Rider
 Rider CSR - Conservation Support Rider
 Rider CRC - Consumer Rate Credit Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2012	\$0.06301	\$0.05323
2013	\$0.06389	\$0.05076
2014	\$0.06862	\$0.05097
2015	\$0.07091	\$0.05284
2016	\$0.06249	\$0.05604
2017	\$0.05709	\$0.05340
2018	\$0.05657	\$0.05549
2019	\$0.05267	\$0.05930
2020	\$0.05038	\$0.05838
2021	\$0.05352	\$0.04869

Total % Change (15.05%) (8.53%)
 CAGR (1.80%) (0.99%)



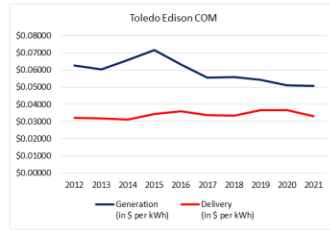
Utility TE
 Customer Class Com
 Tariff Name General Service Schedule GS
 Load Profile TE_LP_CG

Generation Charges Included
 Generation & Capacity

Delivery Charges Included
 Distribution
 Non-Distribution Uncollectible Rider
 Rider RDC - Residential Distribution Credit Rider
 Rider USE - Universal Service Fund Rider
 Rider DSI - Delivery Service Improvement Rider
 Rider DSE - Demand Side Management and Energy Efficiency Rider
 Rider CSR - Conservation Support Rider
 Rider CRC - Consumer Rate Credit Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2012	\$0.06278	\$0.03223
2013	\$0.06045	\$0.03187
2014	\$0.06581	\$0.03112
2015	\$0.07153	\$0.03434
2016	\$0.06325	\$0.03602
2017	\$0.05569	\$0.03367
2018	\$0.05578	\$0.03348
2019	\$0.05444	\$0.03674
2020	\$0.05119	\$0.03680
2021	\$0.05085	\$0.03328

Total % Change (18.99%) 3.27%
 CAGR (2.31%) 0.36%



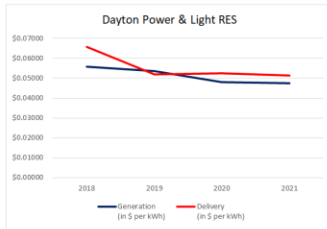
Utility DPL
 Customer Class Res
 Tariff Name Residential
 Load Profile DAY_LP_RS01

Generation Charges Included
 Generation & Capacity

Delivery Charges Included
 Distribution
 Transmission
 Universal Service Fund Rider
 Storm Cost Recovery Rider
 Excise Tax Rider
 Energy Efficiency Rider
 Economic Development Cost Recovery Rider
 Legacy Generation Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2018	\$0.05570	\$0.06590
2019	\$0.05354	\$0.05204
2020	\$0.04812	\$0.05252
2021	\$0.04736	\$0.05149

Total % Change (14.98%) (21.86%)
 CAGR (5.27%) (7.89%)



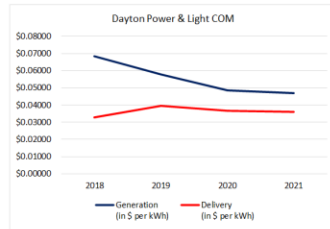
Utility DPL
 Customer Class Com
 Tariff Name General Service D19 Secondary
 Load Profile DAY_LP_S501

Generation Charges Included
 Generation & Capacity

Delivery Charges Included
 Distribution
 Transmission
 Universal Service Fund Rider
 Storm Cost Recovery Rider
 Excise Tax Rider
 Energy Efficiency Rider
 Economic Development Cost Recovery Rider
 Legacy Generation Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2018	\$0.06855	\$0.03271
2019	\$0.05784	\$0.03943
2020	\$0.04847	\$0.03666
2021	\$0.04708	\$0.03614

Total % Change (31.32%) 10.49%
 CAGR (11.77%) 3.38%



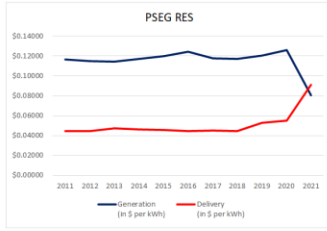
Utility PSEG
 Customer Class Res
 Tariff Name Residential Service Schedule R
 Load Profile PSEG_LP_RS

Generation Charges Included
 Basic Service

Delivery Charges Included
 Distribution
 SOCIETAL BENEFITS CHARGE
 Non-Utility Generation Charge
 Zero Emission Recovery Charge
 SOLAR PILOT RECOVERY CHARGE
 Green Programs Recovery Charge
 INFRASTRUCTURE IMPROVEMENT PROGRAM CHARGES

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.13054	\$0.04459
2012	\$0.11522	\$0.04457
2013	\$0.11457	\$0.04704
2014	\$0.11742	\$0.04618
2015	\$0.12020	\$0.04568
2016	\$0.12421	\$0.04473
2017	\$0.11785	\$0.04524
2018	\$0.11705	\$0.04478
2019	\$0.12043	\$0.05266
2020	\$0.12628	\$0.05490
2021	\$0.08082	\$0.09103

Total % Change (30.65%) 104.15%
 CAGR (3.59%) 7.40%



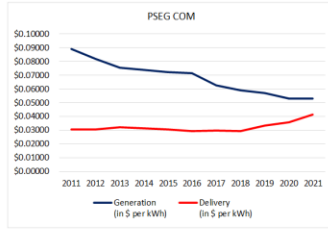
Utility PSEG
 Customer Class Com
 Tariff Name GLP
 Load Profile PSEG_LP_GLP

Generation Charges Included
 Generation & Capacity

Delivery Charges Included
 Distribution
 SOCIETAL BENEFITS CHARGE
 Non-Utility Generation Charge
 Zero Emission Recovery Charge
 SOLAR PILOT RECOVERY CHARGE
 Green Programs Recovery Charge
 INFRASTRUCTURE IMPROVEMENT PROGRAM CHARGES

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2011	\$0.08911	\$0.03039
2012	\$0.08207	\$0.03043
2013	\$0.07548	\$0.03224
2014	\$0.07375	\$0.03132
2015	\$0.07232	\$0.03071
2016	\$0.07152	\$0.02947
2017	\$0.06284	\$0.02967
2018	\$0.05913	\$0.02931
2019	\$0.05712	\$0.03331
2020	\$0.05303	\$0.03573
2021	\$0.05319	\$0.04132

Total % Change (40.30%) 35.97%
 CAGR (5.03%) 3.12%



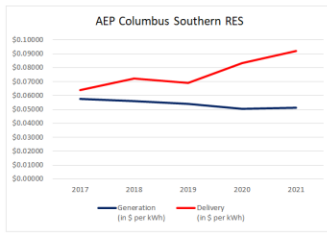
Utility AEP OH CSP
 Customer Class Res
 Tariff Name Residential Service Schedule R
 Load Profile AEP_OH_LP_CCOHRESA

Generation Charges Included
 Generation Energy & Capacity

Delivery Charges Included
 Distribution
 Transmission
 UNIVERSAL SERVICE FUND RIDER
 Pilot Throughput Balancing Adjustment Rider (PTBAR)
 ENHANCED SERVICE RELIABILITY RIDER
 gridsMART RIDER \$ per Month PHASE 1
 DISTRIBUTION INVESTMENT RIDER
 STORM DAMAGE RECOVERY RIDER
 BAD DEBT RIDER
 ECONOMIC DEVELOPMENT COST RECOVERY RIDER
 LEGACY GENERATION RESOURCE RIDER (LGR)
 RETAIL RECONCILIATION RIDER
 SSO CREDIT RIDER
 POWER FORWARD RIDER
 SMART CITY RIDER
 Solar Generation Fund (SGF) RIDER
 ENERGY EFFICIENCY AND PEAK DEMAND REDUCTION COST RECOVERY RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2017	\$0.05751	\$0.06395
2018	\$0.05593	\$0.07207
2019	\$0.05386	\$0.06906
2020	\$0.05038	\$0.08344
2021	\$0.05127	\$0.09206

Total % Change (10.85%) 43.95%
 CAGR (2.83%) 9.54%



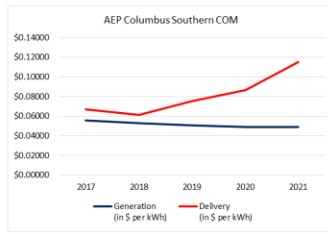
Utility AEP OH CSP
 Customer Class Com
 Tariff Name GS
 Load Profile AEP_OH_LP_CCOHNONA

Generation Charges Included
 Generation Energy & Capacity

Delivery Charges Included
 Distribution
 Transmission
 UNIVERSAL SERVICE FUND RIDER
 Pilot Throughput Balancing Adjustment Rider (PTBAR)
 ENHANCED SERVICE RELIABILITY RIDER
 gridsMART RIDER \$ per Month PHASE 1
 DISTRIBUTION INVESTMENT RIDER
 STORM DAMAGE RECOVERY RIDER
 BAD DEBT RIDER
 ECONOMIC DEVELOPMENT COST RECOVERY RIDER
 LEGACY GENERATION RESOURCE RIDER (LGR)
 RETAIL RECONCILIATION RIDER
 SSO CREDIT RIDER
 POWER FORWARD RIDER
 SMART CITY RIDER
 Solar Generation Fund (SGF) RIDER
 ENERGY EFFICIENCY AND PEAK DEMAND REDUCTION COST RECOVERY RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2017	\$0.05588	\$0.06680
2018	\$0.05268	\$0.06147
2019	\$0.05081	\$0.07529
2020	\$0.04890	\$0.08682
2021	\$0.04871	\$0.11511

Total % Change (12.82%) 72.31%
 CAGR (3.37%) 14.57%



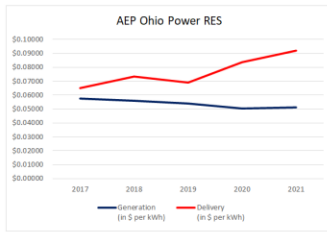
Utility AEP OH OPC
 Customer Class Res
 Tariff Name Residential Service Schedule R
 Load Profile AEP_OH_LP_CCOHRESA

Generation Charges Included
 Generation Energy & Capacity

Delivery Charges Included
 Distribution
 Transmission
 UNIVERSAL SERVICE FUND RIDER
 Pilot Throughput Balancing Adjustment Rider (PTBAR)
 ENHANCED SERVICE RELIABILITY RIDER
 gridsMART RIDER \$ per Month PHASE 1
 DISTRIBUTION INVESTMENT RIDER
 STORM DAMAGE RECOVERY RIDER
 BAD DEBT RIDER
 ECONOMIC DEVELOPMENT COST RECOVERY RIDER
 LEGACY GENERATION RESOURCE RIDER (LGR)
 RETAIL RECONCILIATION RIDER
 SSO CREDIT RIDER
 POWER FORWARD RIDER
 SMART CITY RIDER
 Solar Generation Fund (SGF) RIDER
 ENERGY EFFICIENCY AND PEAK DEMAND REDUCTION COST RECOVERY RIDER

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2017	\$0.05751	\$0.06511
2018	\$0.05593	\$0.07327
2019	\$0.05386	\$0.06917
2020	\$0.05038	\$0.08351
2021	\$0.05127	\$0.09201

Total % Change (10.85%) 41.32%
 CAGR (2.83%) 9.03%



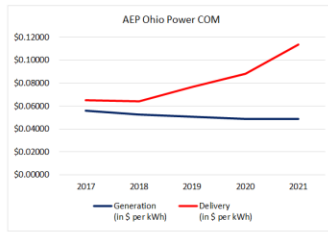
Utility AEP OH OPC
 Customer Class Com
 Tariff Name GS
 Load Profile AEP_OH_LP_CCOHNONA

Generation Charges Included
 Generation Energy & Capacity

Delivery Charges Included
 Distribution
 Transmission
 UNIVERSAL SERVICE FUND RIDER
 Pilot Throughput Balancing Adjustment Rider (PTBAR)
 ENHANCED SERVICE RELIABILITY RIDER
 gridsMART RIDER \$ per Month PHASE 1
 DISTRIBUTION INVESTMENT RIDER
 STORM DAMAGE RECOVERY RIDER
 BAD DEBT RIDER
 ECONOMIC DEVELOPMENT COST RECOVERY RIDER
 LEGACY GENERATION RESOURCE RIDER (LGR)
 RETAIL RECONCILIATION RIDER
 SSO CREDIT RIDER
 POWER FORWARD RIDER
 SMART CITY RIDER
 Solar Generation Fund (SGF) RIDER
 ENERGY EFFICIENCY AND PEAK DEMAND REDUCTION COST RECOVERY RIDER

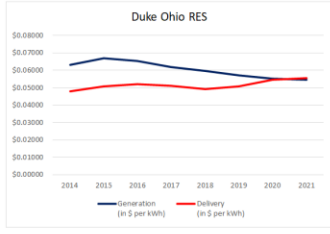
Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2017	\$0.05588	\$0.06504
2018	\$0.05268	\$0.06392
2019	\$0.05081	\$0.07650
2020	\$0.04890	\$0.08803
2021	\$0.04871	\$0.11374

Total % Change (12.82%) 74.88%
 CAGR (3.37%) 15.00%



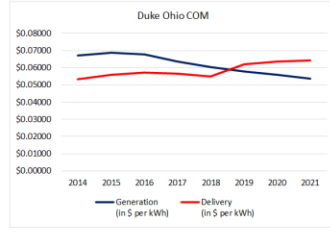
Utility Duke OH
Customer Class Res
Tariff Name Residential Service Schedule RS
Load Profile Duke_OH_LP_R55
Generation Charges Included
 Energy, Capacity & Applicable Adjustments
Delivery Charges Included
 Distribution
 Transmission
 Rider USR- UNIVERSAL SERVICE FUND RIDER
 Rider UE-GEN UNCOLLECTIBLE EXPENSE – ELECTRIC GENERATION RIDER
 Rider ETCA Electric Tax Cuts and Jobs Act Rider
 Rider ESRR, Electric Service Reliability Rider
 Rider PF, PowerForward Rider
 Rider DR-IM, Infrastructure Modernization Rider
 Rider DR-ECF, Economic Competitiveness Fund Rider
 Rider EE-PDRR, Energy Efficiency and Peak Demand Response Recovery
 Rider DOR, Distribution Decoupling Rider
 Rider PSR, Price Stabilization Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2014	\$0.06321	\$0.04787
2015	\$0.06699	\$0.05080
2016	\$0.06546	\$0.05203
2017	\$0.06177	\$0.05120
2018	\$0.05967	\$0.04921
2019	\$0.05718	\$0.05086
2020	\$0.05528	\$0.05454
2021	\$0.05466	\$0.05547
Total % Change	(13.53%)	15.88%
CAGR	(2.06%)	2.13%



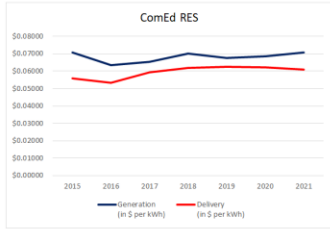
Utility Duke OH
Customer Class Com
Tariff Name Secondary Distribution Service, Small
Load Profile Duke_OH_LP_DM0
Generation Charges Included
 Energy, Capacity & Applicable Adjustments
Delivery Charges Included
 Distribution
 Transmission
 Rider USR- UNIVERSAL SERVICE FUND RIDER
 Rider UE-GEN UNCOLLECTIBLE EXPENSE – ELECTRIC GENERATION RIDER
 Rider ETCA Electric Tax Cuts and Jobs Act Rider
 Rider ESRR, Electric Service Reliability Rider
 Rider PF, PowerForward Rider
 Rider DR-IM, Infrastructure Modernization Rider
 Rider DR-ECF, Economic Competitiveness Fund Rider
 Rider EE-PDRR, Energy Efficiency and Peak Demand Response Recovery
 Rider DOR, Distribution Decoupling Rider
 Rider PSR, Price Stabilization Rider

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2014	\$0.06726	\$0.05327
2015	\$0.06881	\$0.05595
2016	\$0.06782	\$0.05729
2017	\$0.06369	\$0.05640
2018	\$0.06042	\$0.05480
2019	\$0.05770	\$0.06188
2020	\$0.05598	\$0.06363
2021	\$0.05371	\$0.06415
Total % Change	(20.15%)	20.42%
CAGR	(3.16%)	2.69%



Utility ComEd
Customer Class Res
Tariff Name Residential Service Schedule RS
Load Profile ComEd_LP_23
Generation Charges Included
 PEC- Purchased Electricity Charges
 PSC's - PJM Services Charges
 PEA- Purchased Electricity Adjustment
Delivery Charges Included
 Distribution
 Standard Metering Service Charge (SMSM)
 Illinois Electricity Distribution Tax Charge (IEDT)
 Rider ECR - Environmental Cost Recovery Adjustment
 MISCELLANEOUS PROCUREMENT COMPONENTS ADJUSTMENT FACTOR MPAC
 Rider REA - Renewable Energy Adjustment
 Rider ZEA - Zero Emission Adjustment
 Rider EEP - Energy Efficiency Pricing and Performanc
 Rider EEP - Energy Efficiency Pricing and Performanc
 Rider EEP - Energy Efficiency Pricing and Performanc
 Rider ETAC – Energy Transition Assistance Charge (in \$ per kWh)

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2015	\$0.07063	\$0.05586
2016	\$0.06346	\$0.05331
2017	\$0.06540	\$0.05940
2018	\$0.06997	\$0.06185
2019	\$0.06792	\$0.06252
2020	\$0.06857	\$0.06227
2021	\$0.07071	\$0.06102
Total % Change	0.12%	9.23%
CAGR	0.02%	1.48%



Utility ComEd
Customer Class Com
Tariff Name Small Load
Load Profile ComEd_LP_28
Generation Charges Included
 PEC- Purchased Electricity Charges
 PSC's - PJM Services Charges
 PEA- Purchased Electricity Adjustment
Delivery Charges Included
 Distribution
 Standard Metering Service Charge (SMSM)
 Illinois Electricity Distribution Tax Charge (IEDT)
 Rider ECR - Environmental Cost Recovery Adjustment
 MISCELLANEOUS PROCUREMENT COMPONENTS ADJUSTMENT FACTOR MPAC
 Rider REA - Renewable Energy Adjustment
 Rider ZEA - Zero Emission Adjustment
 Rider EEP - Energy Efficiency Pricing and Performanc
 Rider EEP - Energy Efficiency Pricing and Performanc
 Rider EEP - Energy Efficiency Pricing and Performanc
 Rider ETAC – Energy Transition Assistance Charge (in \$ per kWh)

Year	Generation (in \$ per kWh)	Delivery (in \$ per kWh)
2015	\$0.07056	\$0.02157
2016	\$0.06335	\$0.02170
2017	\$0.06567	\$0.02520
2018	\$0.06984	\$0.02947
2019	\$0.06777	\$0.02808
2020	\$0.06849	\$0.02872
2021	\$0.07105	\$0.02993
Total % Change	0.72%	38.77%
CAGR	0.12%	5.61%

