

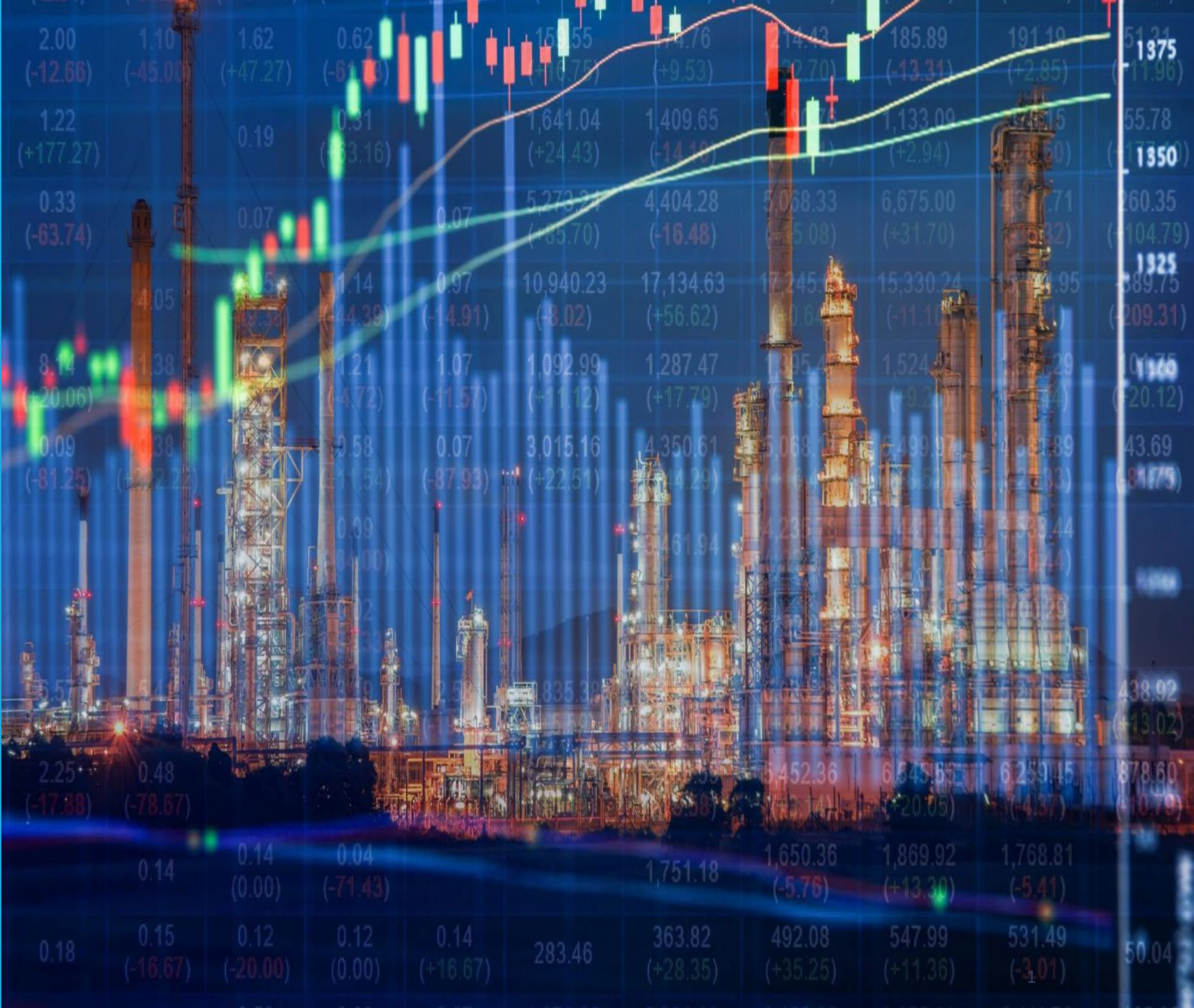
# Cost Comparison of Retail Electricity Rates for the City of Naperville Municipal Utility

May 29, 2025

The Power Bureau

CJT Energy Law, LLC

Progressive Energy Solutions, LLC



# Agenda

OVERVIEW	<ul style="list-style-type: none"><li>▪ Introductions</li><li>▪ Assignment</li></ul>
APPROACH	<ul style="list-style-type: none"><li>▪ Assumptions</li><li>▪ Data Sources</li><li>▪ Rate Structures</li></ul>
RESULTS	<ul style="list-style-type: none"><li>▪ Rate by Rate</li><li>▪ Volatility</li><li>▪ Escalators</li></ul>
DISCUSSION	<ul style="list-style-type: none"><li>▪ Open</li></ul>

# OVERVIEW

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## Power Bureau

- Advisor on energy policy, planning, and procurement
- Retail and Wholesale energy transaction support

## CJT Energy Law

- Legal analysis and advocacy supporting transactions as well as regulatory and legislative issues
- Representing entities other than the local utilities

## Assignment

- Compare retail electricity rates of Naperville Municipal Utility and Commonwealth Edison Company (ComEd)
- Identify relevant trends, differentiators, drivers

APPROACH

Assumptions

Data Sources

Rate Structures

Task 1: Map the “Retail Cost” Calculation

Rates	<ul style="list-style-type: none"><li>• Residential</li><li>• Small Commercial (GS-1)</li><li>• Large Commercial (GS-2)</li><li>• Outdoor Metered Lights</li><li>• Primary Customers (served at 15kV)</li><li>• Transmission Customers (served at 34.5kV)</li></ul>
Billing Determinants	<ul style="list-style-type: none"><li>• Monthly Consumption (per Rate Class)</li><li>• Monthly Demand (per Rate Class)</li><li>• Monthly Number of Customers (per Rate Class)</li></ul>
Retail Cost	<ul style="list-style-type: none"><li>• Rate * Volume = Cost</li></ul>

APPROACH

Assumptions

Data Sources

Rate Structures

Task 2: Locate authoritative and detailed data

Rates	<ul style="list-style-type: none"><li>Naperville Municipal Utility</li><li>Commonwealth Edison Company</li><li>Illinois Commerce Commission</li><li>Illinois Power Agency</li><li>PJM Independent Market Monitor (Monitoring Analytics)</li></ul>
Billing Determinants	<ul style="list-style-type: none"><li>Naperville Municipal Utility<ul style="list-style-type: none"><li>Some capacity (demand) values are averaged</li><li>Some consumption values are % allocated</li></ul></li></ul>
Other	<ul style="list-style-type: none"><li>Additional details can be built into the models</li></ul>

Task 3: Identify which ComEd rates mirror Naperville’s Rates

APPROACH

Assumptions

Data Sources

Rate Structures

Retail Rate Equivalents	
City of Naperville	ComEd
Residential	Residential, Single Family/ No Electric Space Heat
Small Commercial (GS-1)	Watt-Hour
Large Commercial (GS-2)	Medium Load
Outdoor Metered Lights	Dusk to Dawn Lighting
Primary Customer served at 15 kV	Very Large Load
Transmission Customers served at 34.5 kV	High Voltage



## Task 4: Run Calculations for each Naperville and ComEd Rate Class

NAPERVILLE RESIDENTIAL RATE CLASS (12/2024)	
Customer Charges	\$946,849
Energy Charges	\$4,084,820
Demand Charges	\$0
<b>TOTAL Charges (\$/Month)</b>	<b>\$5,031,669</b>
<b>AVERAGE Rate (\$/kWh)</b>	<b>\$0.132566</b>

COMMONWEALTH EDISON RESIDENTIAL RATE CLASS (12/2024)	
<b><u>Supply</u></b>	
Electricity Supply Charge	\$2,455,750
Purchased Electricity Adjustment	-\$307,443
<b><u>Delivery</u></b>	
Customer Charge	\$863,860
Standard Metering Charge	\$223,345
Distribution Facilities Charge	\$2,292,919
IL Electricity Distribution Charge	\$47,445
<b><u>Taxes and Fees</u></b>	
Environmental Cost Recovery Adj	\$8,350
Renewable Energy/Coal Tech. Dev. Charge	\$2,785
Energy Assistance Charge	\$0
Residential Real Time Pricing Program Cost Recovery	\$2,228
Energy Efficiency and Demand Response Adjustment	\$138,919
Renewable Portfolio Standard	\$190,721
Zero Emissions Standard	\$626,273
Carbon Free Energy Resource Adj	\$258,101
Energy Transition Assistance	\$27,328
<b>TOTAL Charges (\$/Month)</b>	<b>\$6,830,582</b>
<b>AVERAGE Rate (\$/kWh)</b>	<b>\$0.179961</b>

RESULTS

Residential

Small Commercial (GS-1)

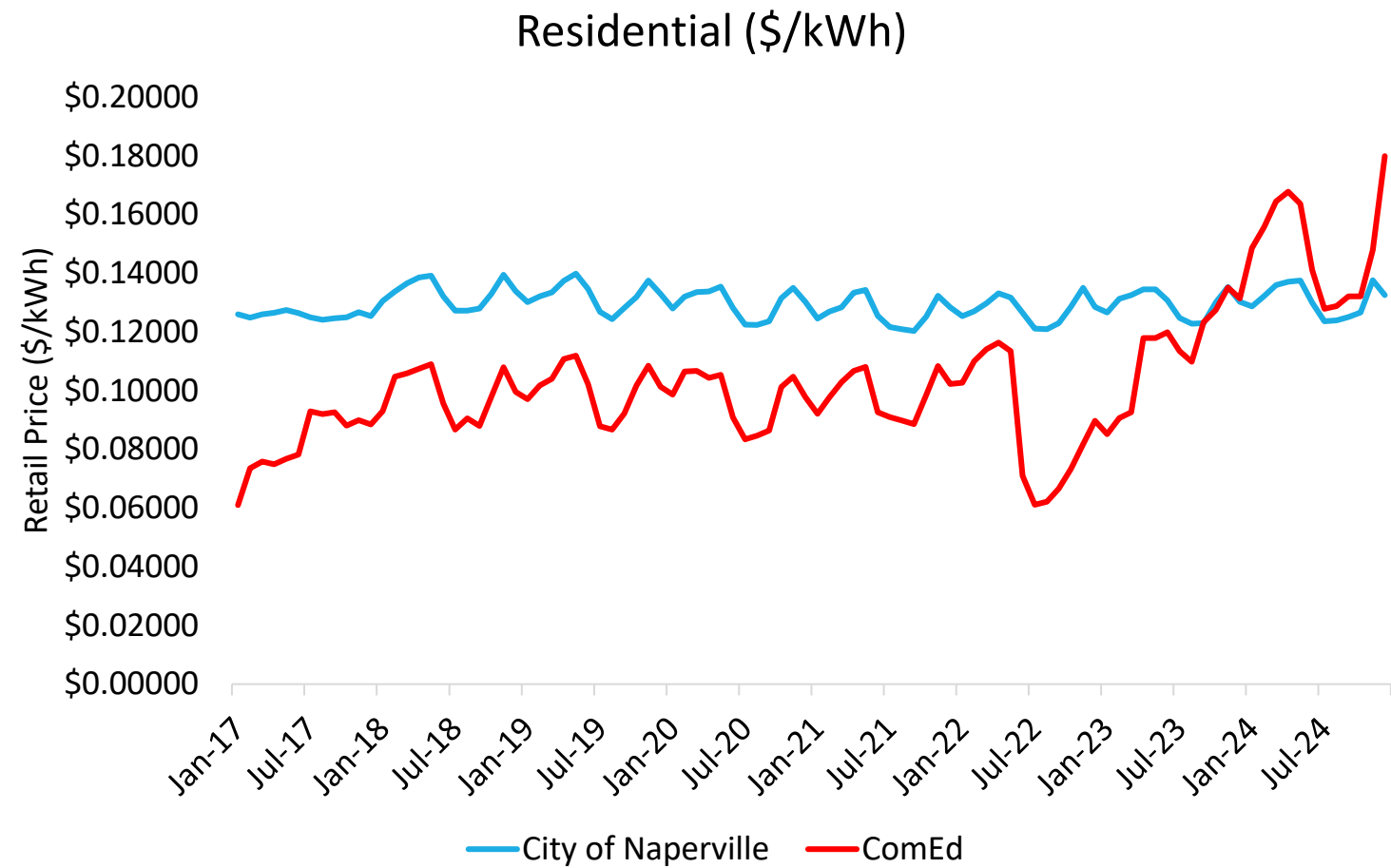
Large Commercial (GS-2)

Outdoor Metered Lights

Primary Service

Transmission Service

Residential Rates: Price Advantage has Flipped



Utility	Volatility Index	Inflation Index
City of Naperville	4.95	4.2%
Commonwealth Edison	23.21	81.2%



RESULTS

Residential

Small Commercial (GS-1)

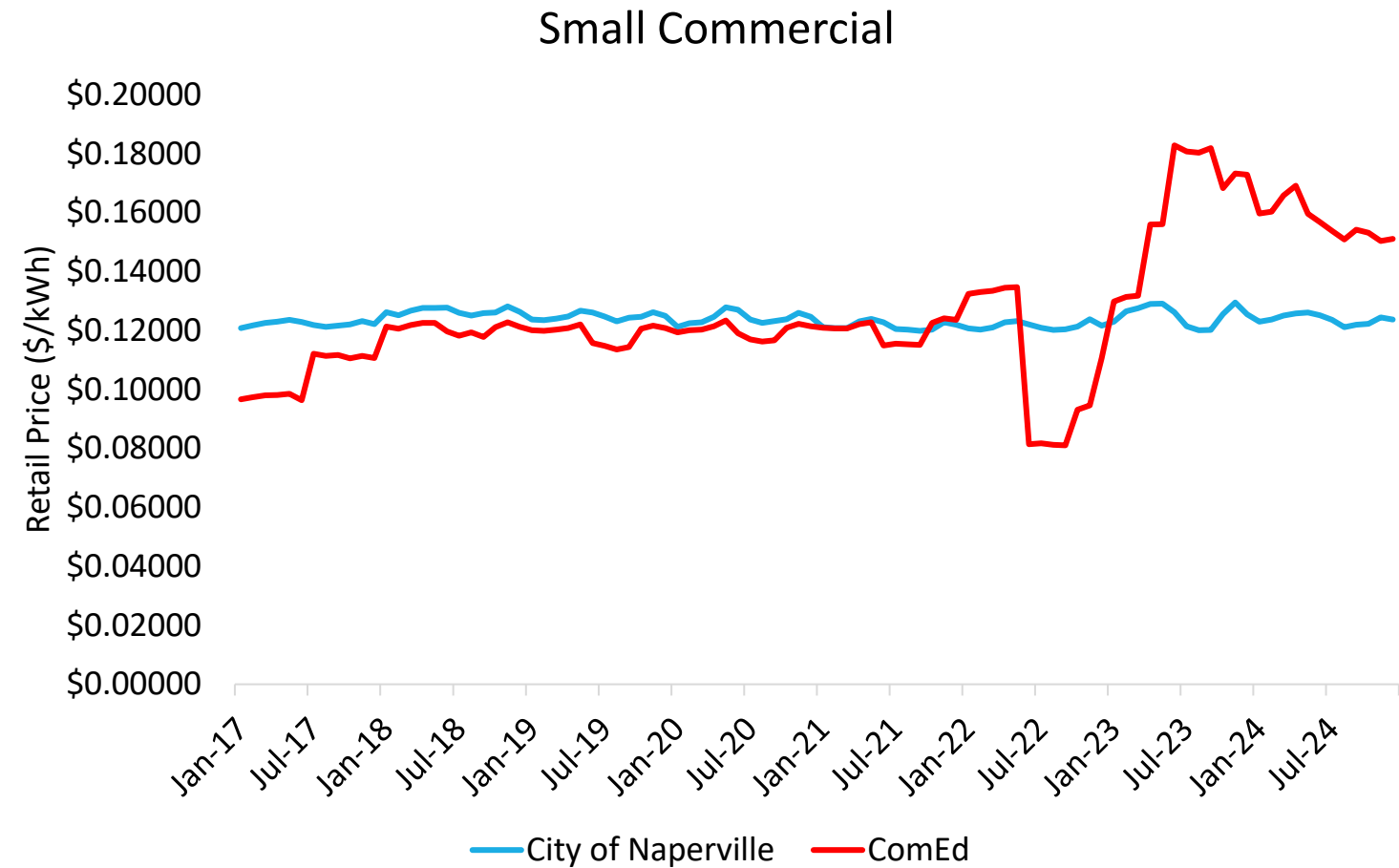
Large Commercial (GS-2)

Outdoor Metered Lights

Primary Service

Transmission Service

Small Commercial Rates: Historical Price Parity has Shifted



Utility	Volatility Index	Inflation Index
City of Naperville	2.40	1.3%
Commonwealth Edison	23.25	50.4%

RESULTS

Residential

Small Commercial (GS-1)

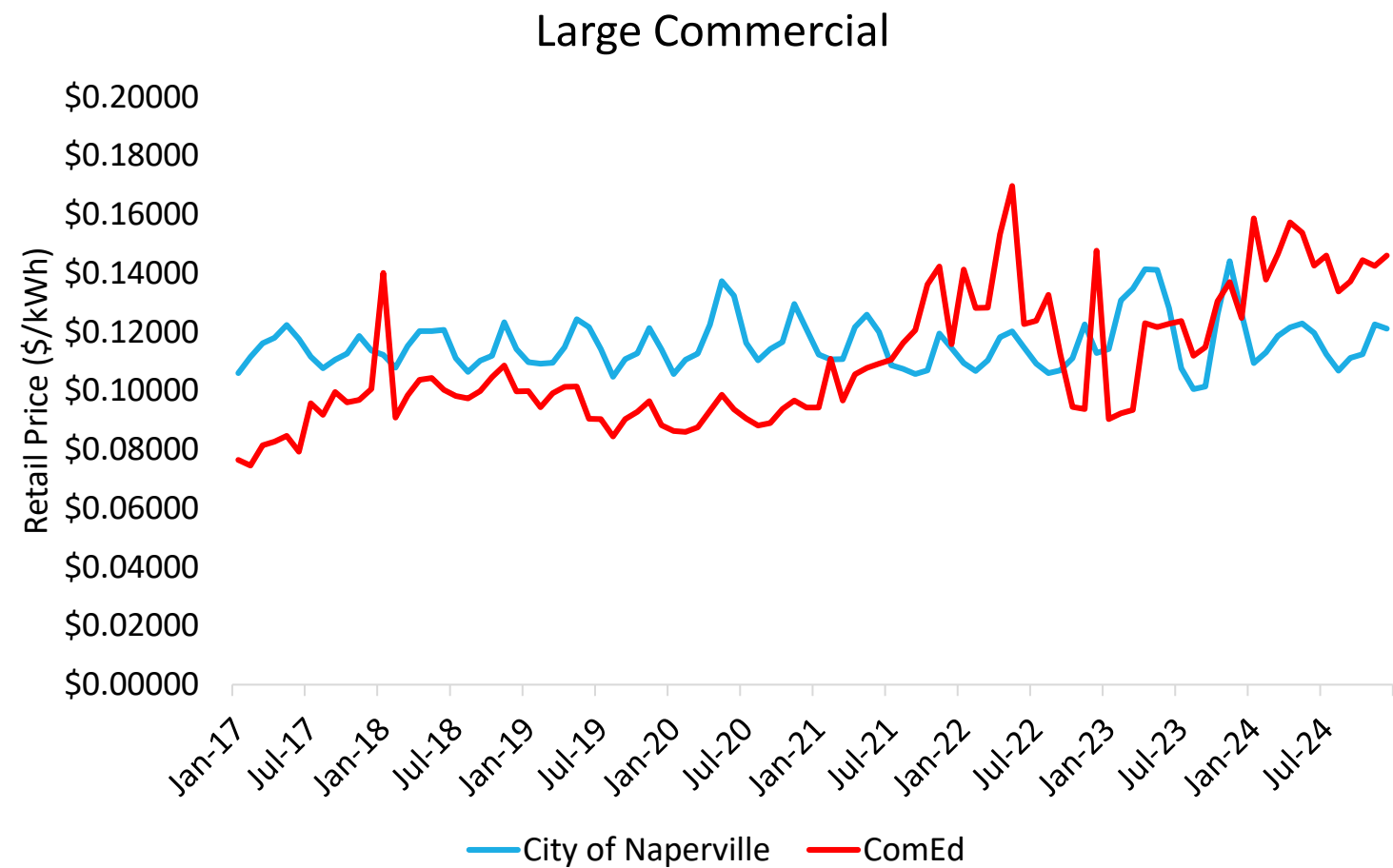
Large Commercial (GS-2)

Outdoor Metered Lights

Primary Service

Transmission Service

Large Commercial Rates: Historical Price Parity has Shifted



Utility	Volatility Index	Inflation Index
City of Naperville	8.68	1.8%
Commonwealth Edison	23.37	64.8%

RESULTS

Residential

Small Commercial (GS-1)

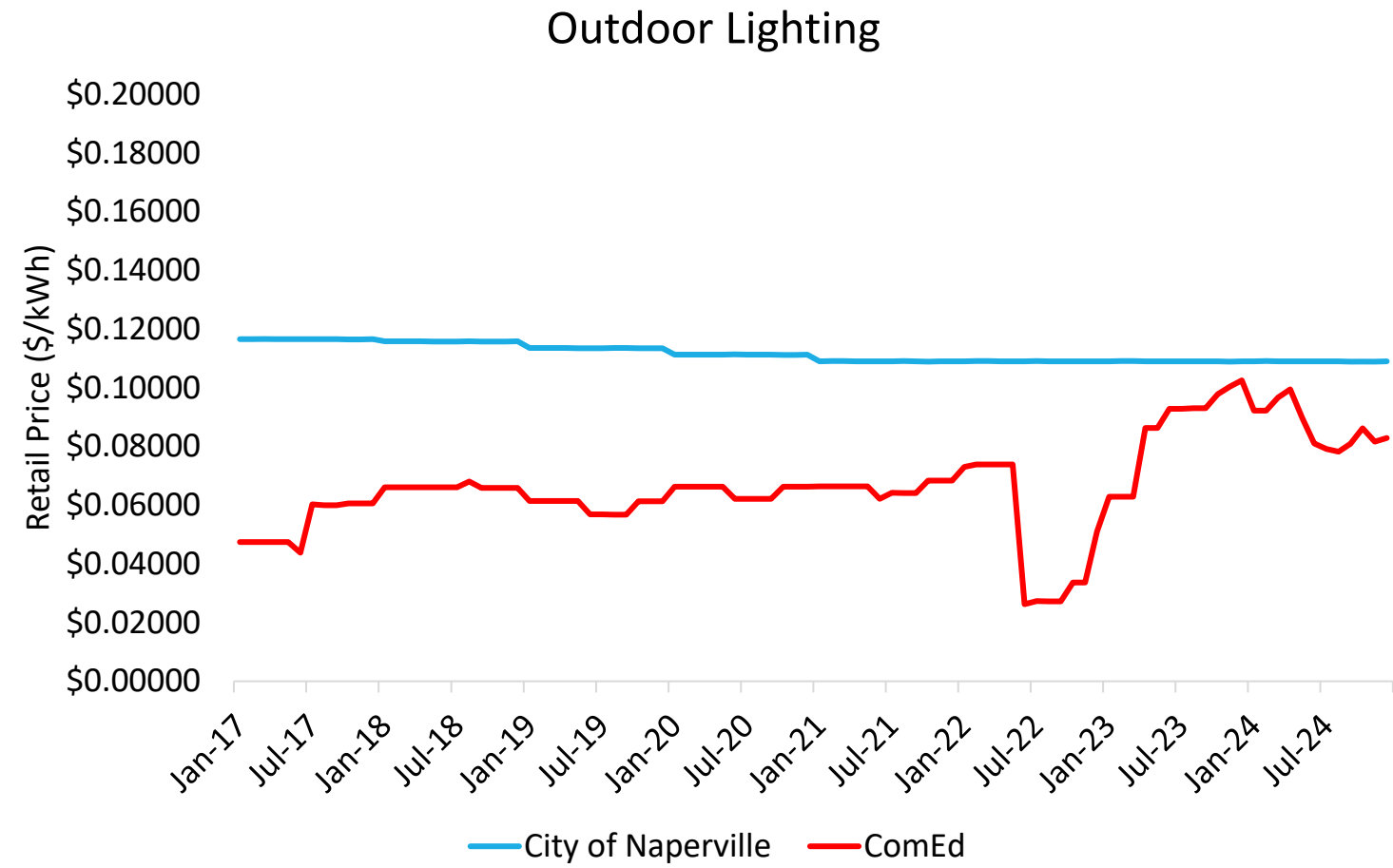
Large Commercial (GS-2)

Outdoor Metered Lights

Primary Service

Transmission Service

Outdoor Lighting Rates: Historical Price Gas is Shrinking



Utility	Volatility Index	Inflation Index
City of Naperville	3.03	-6.5%
Commonwealth Edison	16.13	61.7%

RESULTS

Residential

Small Commercial (GS-1)

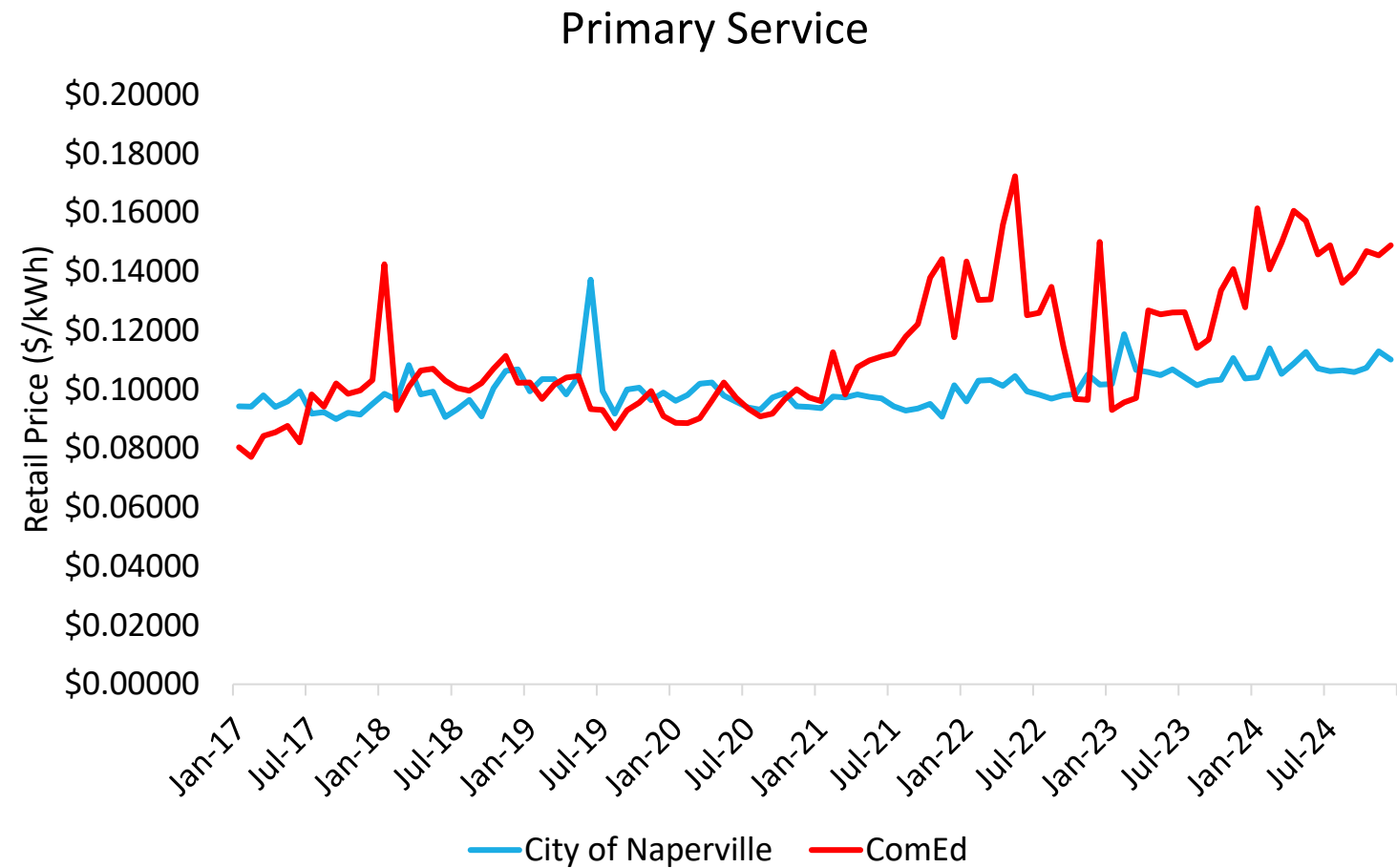
Large Commercial (GS-2)

Outdoor Metered Lights

Primary Service

Transmission Service

Primary Service Rates: Historical Price Parity has Shifted



Utility	Volatility Index	Inflation Index
City of Naperville	7.02	15.3%
Commonwealth Edison	22.37	63.0%

## RESULTS

Residential

Small Commercial (GS-1)

Large Commercial (GS-2)

Outdoor Metered Lights

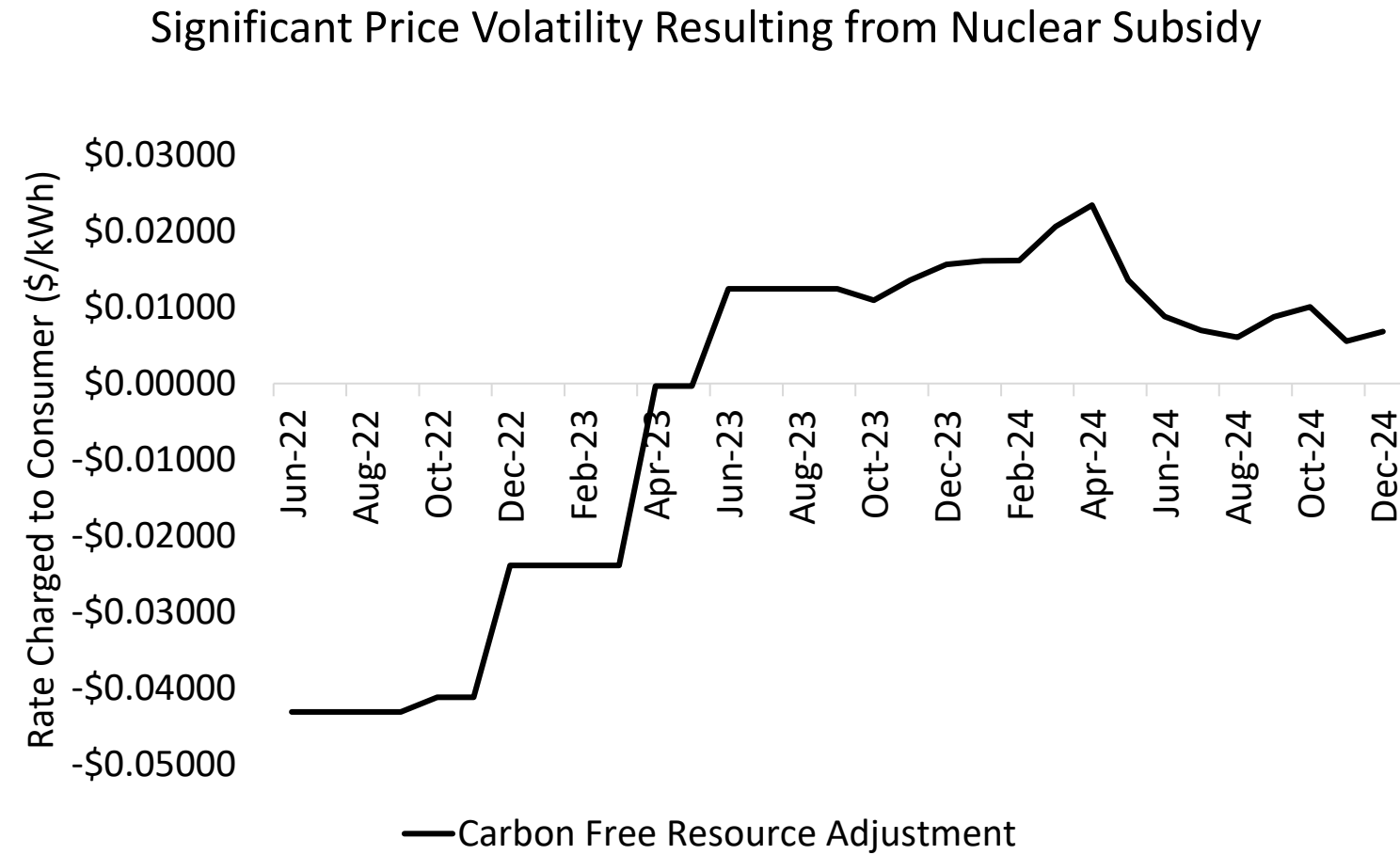
Primary Service

**Transmission Service**

### Transmission Service Rates: Not Presented

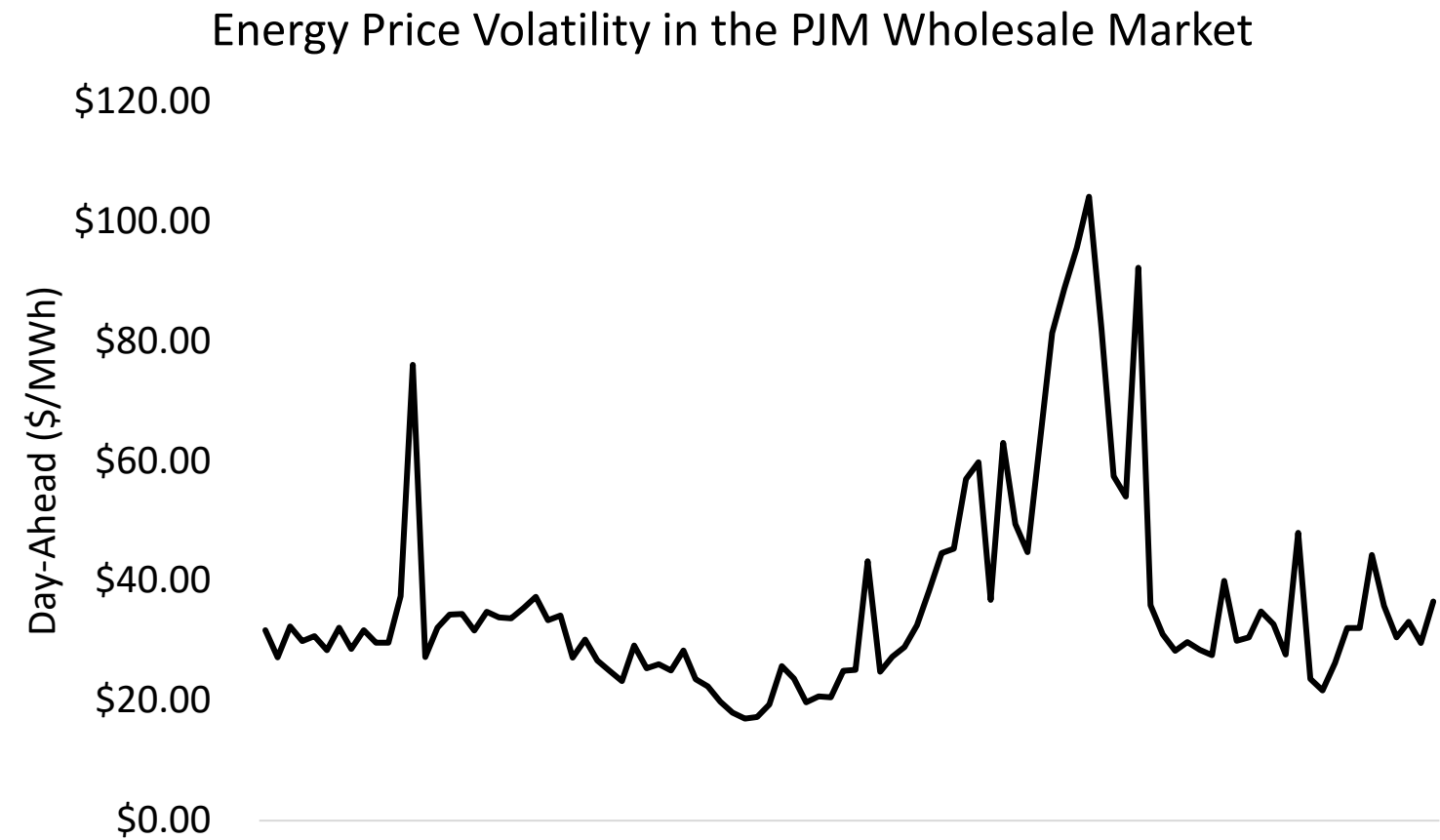
- Only one (1) customer currently is served under the Naperville Municipal Utility Transmission Service Rate
- We will not present the analysis for the Transmission Service rate customer since doing so would effectively share that customer's account information

Volatility Driver: Carbon Free Resource Adjustment



Originally considered to be “hedge” against rising energy and capacity prices until ComEd miscalculated credits by \$1.1 billion in year 1 and has been recovering those overages (with interest) for the past 2 years.

Volatility Driver: PJM Wholesale Markets

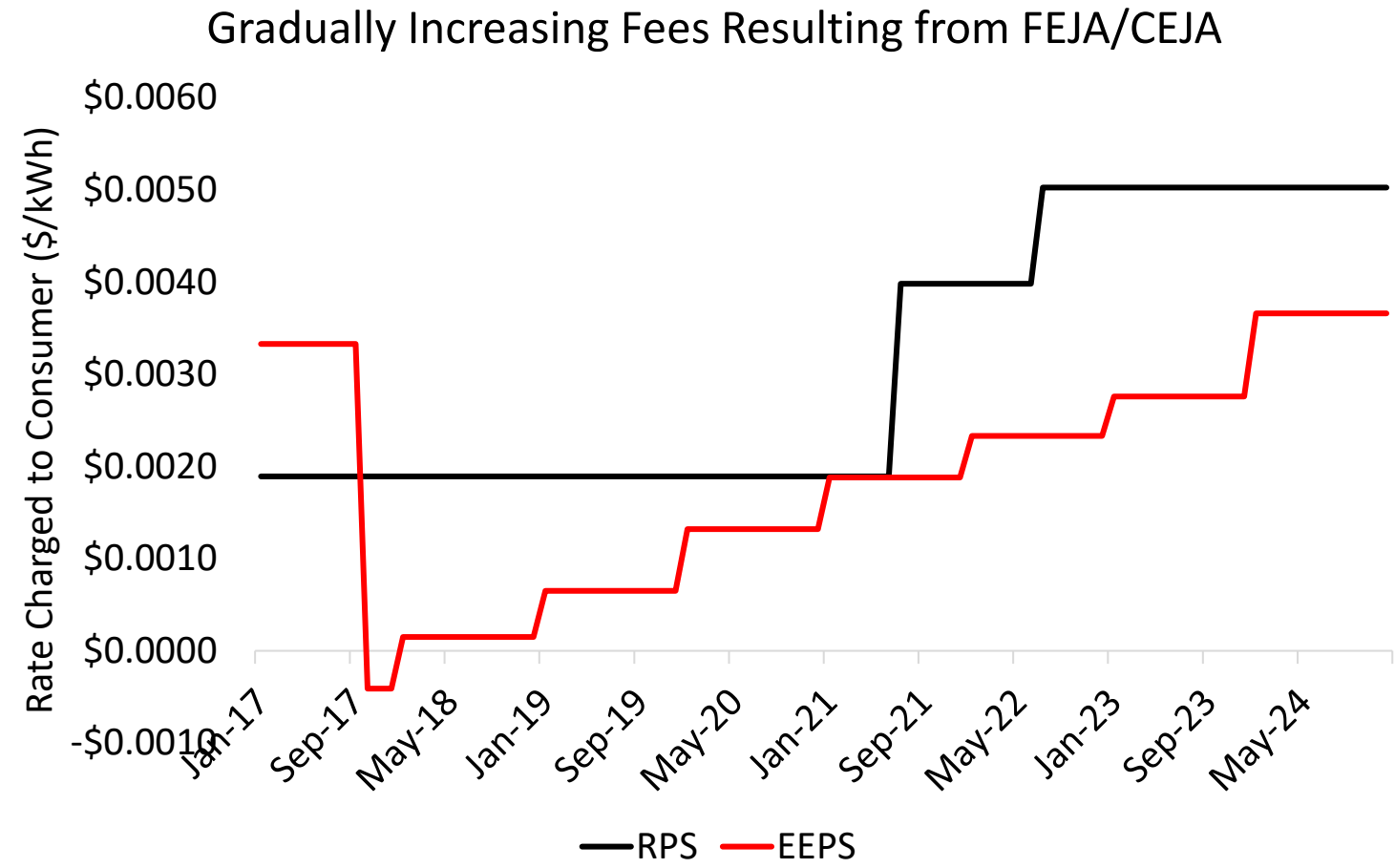


Wide variances in Energy prices over the past few years have been driven by underlying volatility in natural gas prices and tightening balances between supply and demand levels throughout PJM.



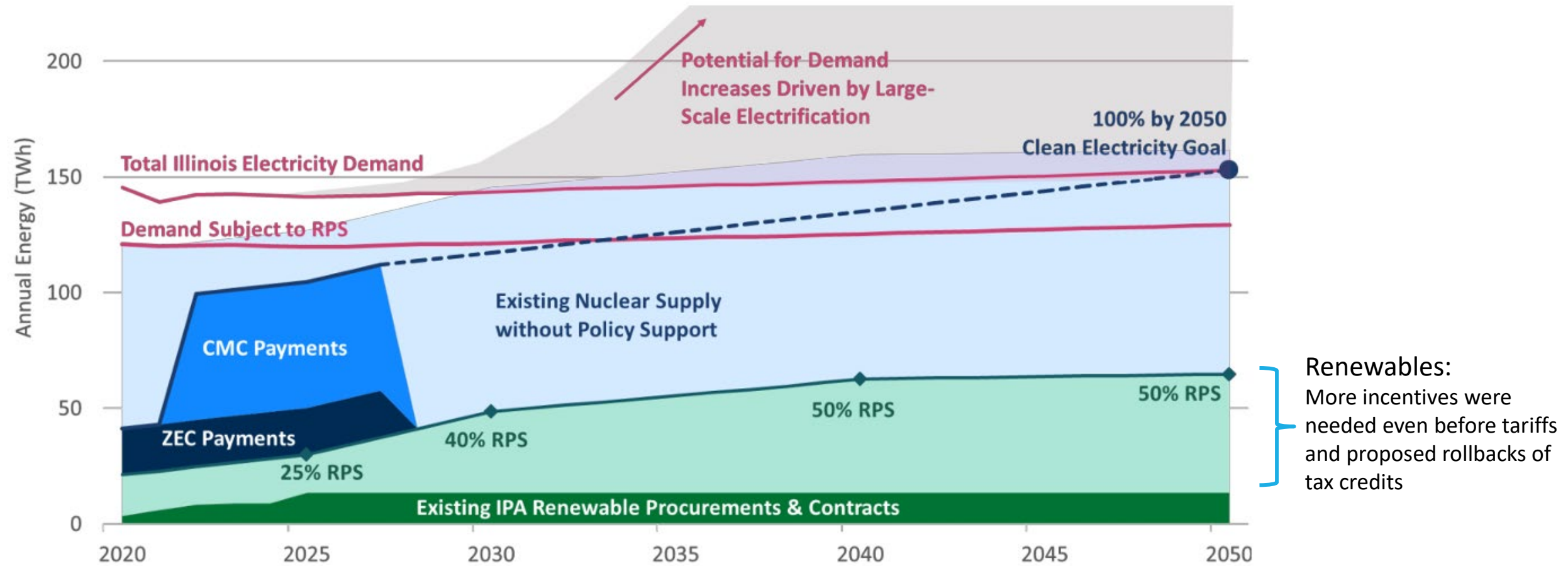
- RESULTS
- Volatility
- Escalators
- Last Point

Escalation Drivers: Renewable Portfolio Standard and Energy Efficiency



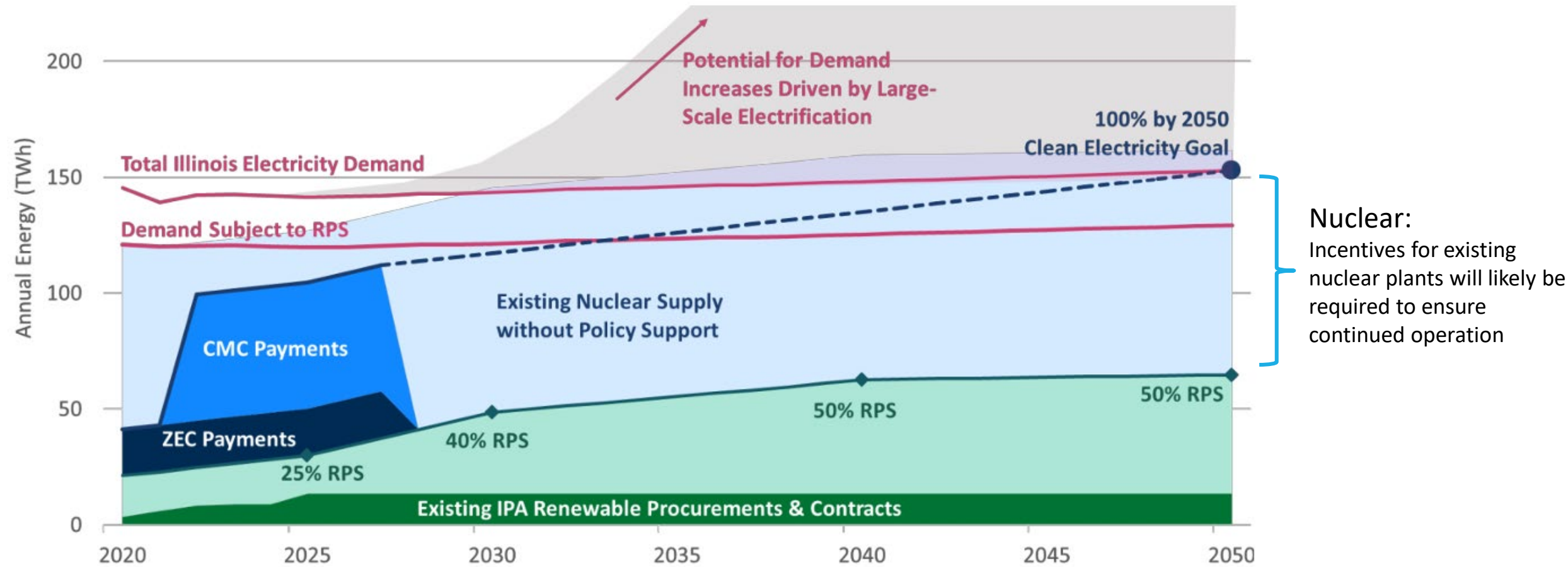
Energy Efficiency program costs increase due to ComEd receiving a return of and on program expenditures. Renewable Portfolio Standard funding will run into deficits starting in 2028-2029, so further increases are expected.

Final Point: Policymakers already have identified drivers for prices to continue to rise

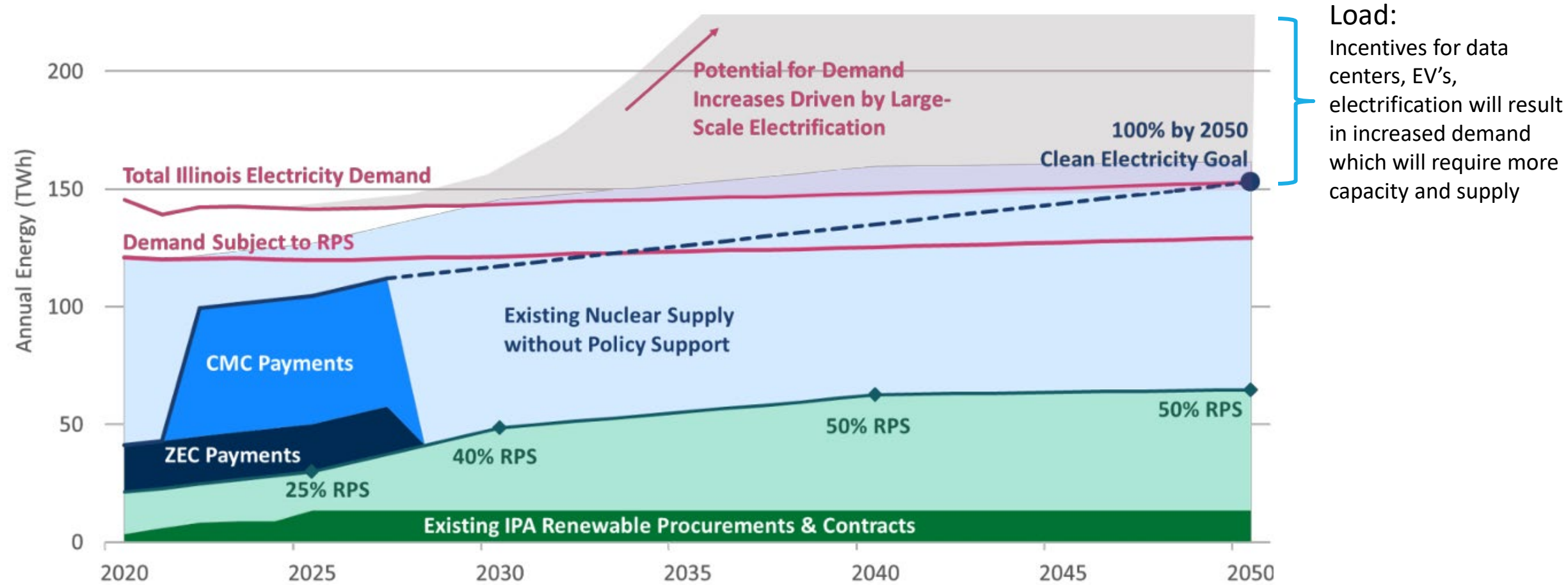


Renewables:  
More incentives were  
needed even before tariffs  
and proposed rollbacks of  
tax credits

Final Point: Policymakers already have identified drivers for prices to continue to rise



Final Point: Policymakers already have identified drivers for prices to continue to rise



## DISCUSSION

Thank You!

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