



# Kane County

## KC Energy and Environmental Committee

Government Center  
719 S. Batavia Ave., Bldg. A  
Geneva, IL 60134

### Agenda

BATES, Tarver, Allan, Kiou, Penesis, Strathmann, Young, ex-officios Roth (County Vice Chair) and Pierog (County Chair)

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**Friday, May 16, 2025**

**9:00 AM**

**County Board Room**

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#### **2025 Committee Goals**

- Pursue funding to improve energy efficiency in Kane County Government-owned buildings
  - Upon passage of the Tree Protection Ordinance, develop budget and implementation strategy for the Ordinance and an educational program to promote Tree Protection
  - Develop Client Action Implementation teams and assist team in prioritizing action items and development strategies
  - Increase education and improve overall recycling in Kane County buildings
  - Community outreach to education about the CAIP
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- 1. Call To Order**
  - 2. Roll Call**
  - 3. Remote Attendance Requests**
  - 4. Approval of Minutes: April 11, 2025**
  - 5. Public Comment (Agenda Items)**
  - 6. Environmental (J.Wollnik)**
  - 7. Recycling/Solid Waste (C. Ryan)**
  - 8. Sustainability (S.Hinshaw)**
    - A. Solar Savings and Opportunities for Kane County**
    - B. Cost Savings for Clean Energy**
    - C. Resolution: Approving A Weatherization Rebate Program For Kane County Farmers**
  - 9. New Business**
  - 10. Chairs Comments**
  - 11. Reports Placed On File**
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- 12. Executive Session (if needed)**
- 13. Adjournment**

STATE OF ILLINOIS )  
COUNTY OF KANE ) SS.

**PRESENTATION/DISCUSSION NO. TMP-25-563**  
**SOLAR SAVINGS AND OPPORTUNITIES FOR KANE COUNTY**



# Electric Spend Estimate

## June 1, 2025 – May 31, 2026



Kane County Government Center 37W777 Rt 38			
	No Solar	With Solar	
	Annual Estimate (kWh profile)	Annual Estimate (kWh profile)	Solar Savings
Power purchased from ComEd / Grid	9,403,906	5,406,486	
Power purchased from Solar Field	0	3,997,420	
Actual kWh used	9,403,906	9,403,906	
	Current (Spend profile)	With Solar (Spend profile)	
Energy Spend (Supplier) On Peak \$0.04988 per kWh	\$ 211,080	\$ 121,354	
Energy Spend (Supplier) Off Peak \$0.03218 per kWh	\$ 166,440	\$ 95,689	
Power purchased from Solar Field @ \$0.03946 per kWh	\$ -	\$ 157,738	
Sub-Total Energy Spend	\$ 377,520	\$ 374,782	2,738
Transmission Costs (104% reduction actual -40.8375 PLC)	\$ 69,223	\$ (1,816)	
Capacity Charge (88.4% reduction)	\$ 191,552	\$ 22,234	
Ancillary Services	\$ 14,959	\$ 10,190	
Sub-Total Fixed Energy Spend	\$ 275,733	\$ 30,608	
Total Energy Spend with Fixed Costs	\$ 653,253	\$ 405,389	\$ 247,864
ComEd Charges			
Customer Charge	\$ 10,758	\$ 10,758	
Standard Metering Charge	\$ 152	\$ 152	
Distribution Facilities Charges	\$ 524,469	\$ 472,022	
Meter Lease Charge	\$ 348	\$ 348	
Nonstandard Facility Charge	\$ 6,380	\$ 6,380	
IL Elect Distribution Charge	\$ 11,661	\$ 6,704	
Sub-Total ComEd Charges	\$ 553,766	\$ 496,363	\$ 57,404
Tax's and Environmental Charges			
Envir Cost Recovery Adj.	\$ 188	\$ 108	
Renewable Portfolio Standard	\$ 47,208	\$ 27,141	
Zero Emissions Standard	\$ 18,338	\$ 10,543	
Carbon Free Resource Adjustment	\$ (103,443)	\$ (59,471)	
Energy Efficiency Programs	\$ 13,636	\$ 7,839	
Energy Transition Assistance	\$ 6,771	\$ 3,893	
State Tax	\$ 29,328	\$ 19,978	
Sub-Total Tax's and Environmental	\$ 12,025	\$ 10,030	\$ 1,995
Total Spend	\$ 1,219,044	\$ 911,782	\$ 307,263
		Savings with Solar	25%

# Environmental Benefits



Greenhouse Gas Emission Reduction over 25 years	53,946 CO <sub>2</sub> Metric Tons
Miles Driven by a Car over 25 years	138,291,864 miles
Homes Energy Use over 25 years	6,798 homes
Acres of Forest over 25 years	64,332 acres

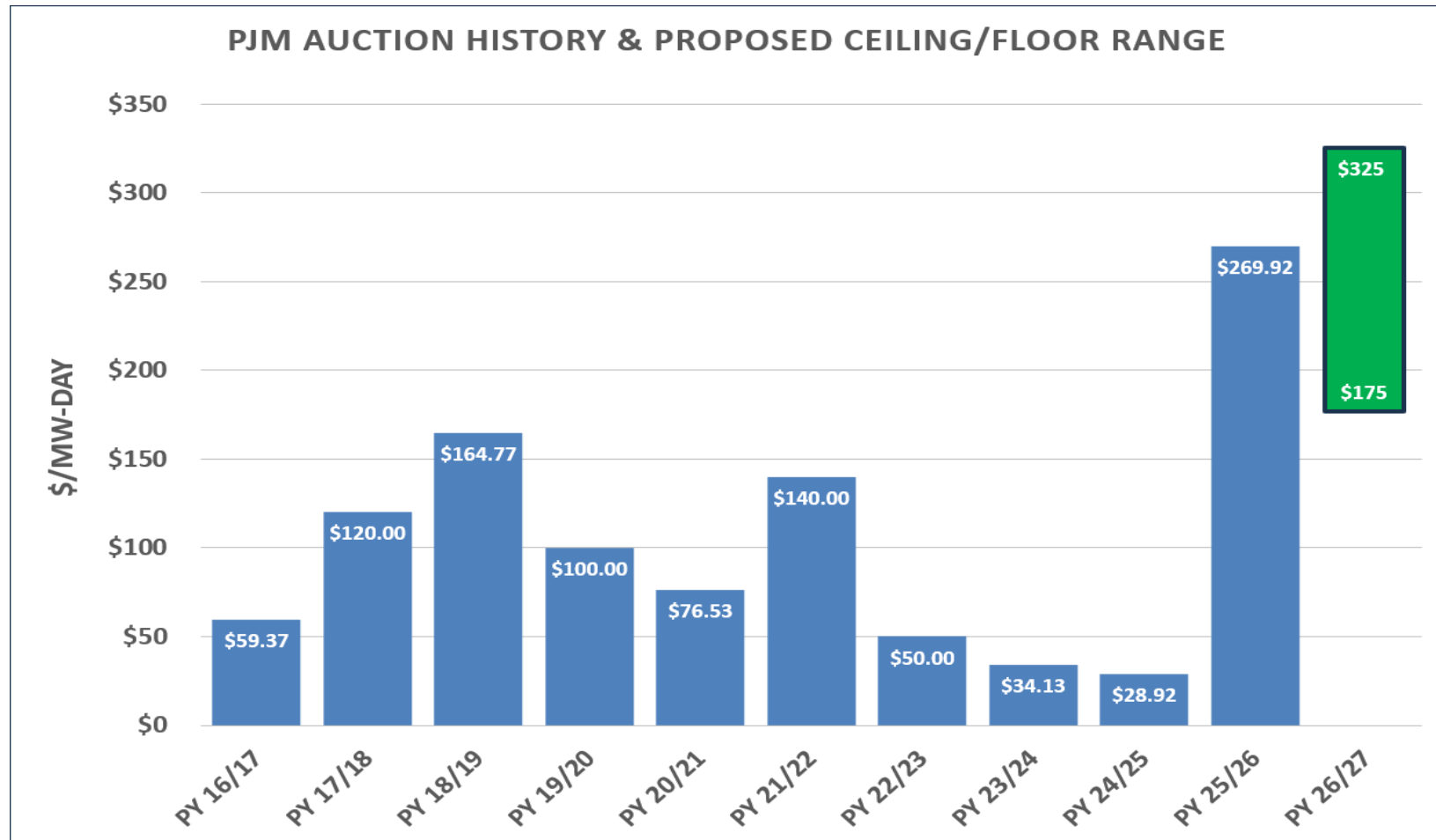
\*Based on EPA Greenhouse Calculator

# Electric Power Price “Future Curve”

Wholesale Market Pricing (Midwest) since Jan. 2011

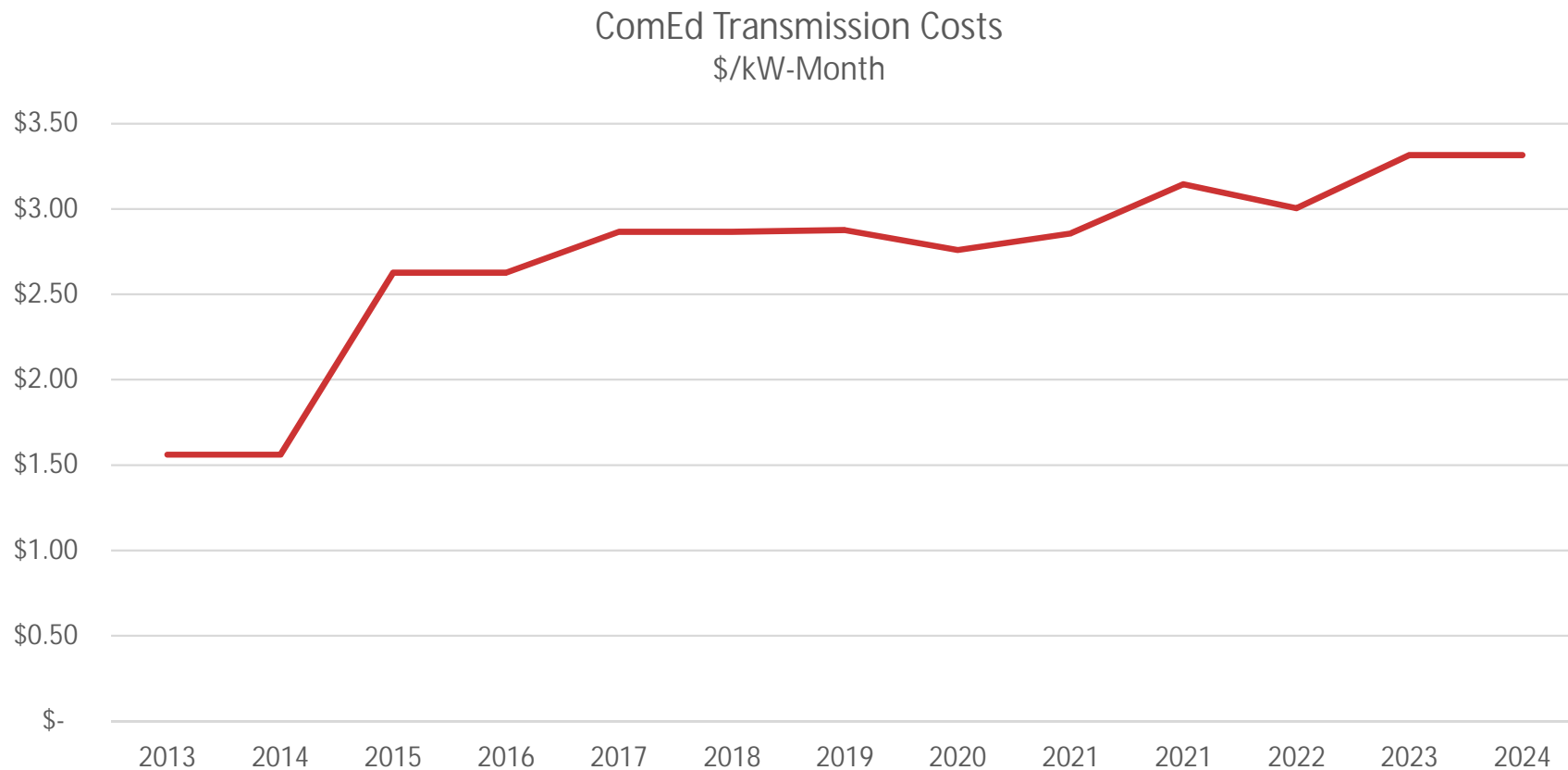


# PJM Capacity Prices show significant increases



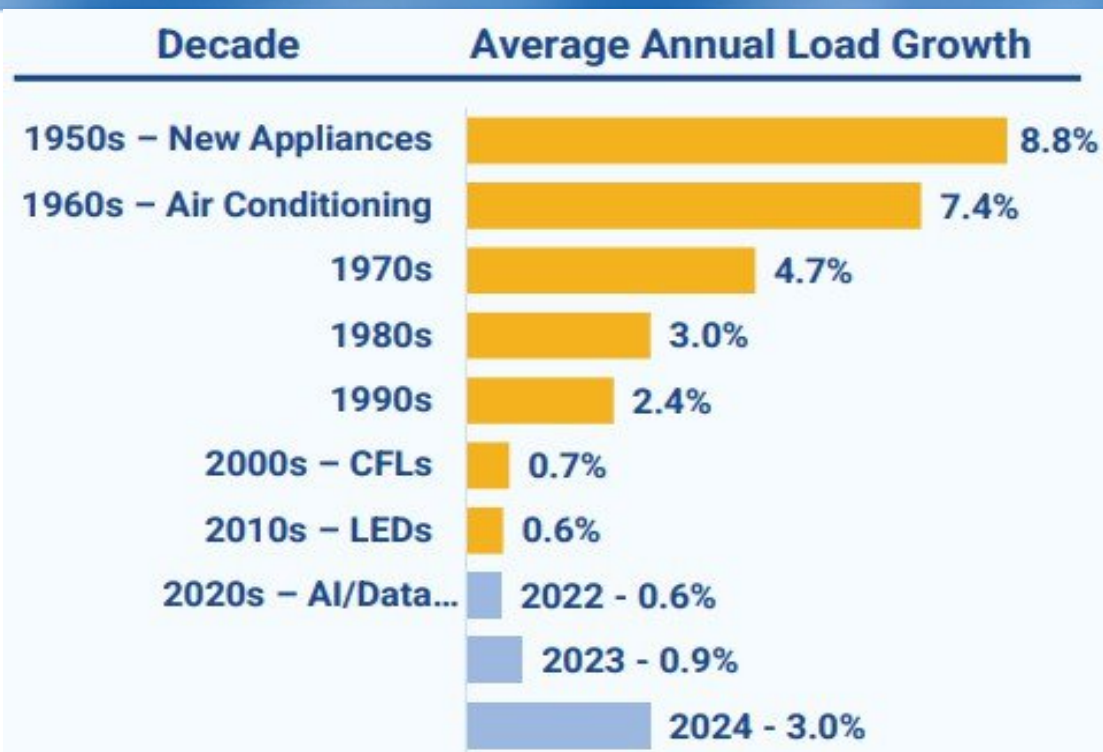


# Transmission Cost History



Since 2013, the Transmission Cost has increased from \$1.50/kW-Month to almost \$3.30/kW-month.

# Electric Load Growth



**SOURCES** | NERC, [2022 Long-Term Reliability Assessment](#) (December 2022), p. 20 and [Supplemental Table F](#).  
Edison Electric Institute, [EEI Industry Capital Expenditures with Functional Detail](#), published October 2021, September 2022, September 2023 and September 2024.  
Grid Strategies, [Fewer New Miles: The US Transmission Grid in the 2020s](#) (July 2024).

- Before 2022, most load forecasts relied on general economic trends and population growth to predict demand
- Beginning in 2022, a surge in strategic industries, such as data centers and domestic industrial facilities, has driven shockingly large increases in 5-year load projections
- Data centers are the largest contributor

For over two decades, electric demand has been in a low growth mode, well below 1% per year. Current forecast, anticipate 3% growth which may seem small, this however would mean six time the planning and construction of new generation and transmission capacity.

# Solar Opportunities for Residents / Business / Governmental



- Residential (ComEd)
  - Incentives pay for 50% - 65% of solar project
  - True "Net Metering" ended 12/31/24 going to Modified "Net Metering" in January 2025.
  - Payback is almost always less than 7 years.
  - Purchase Price Agreement (PPA) and Lease Agreements are available to allow residents to have solar with no upfront money. Caution is many of these are not great deals.
- Business / Governmental / Non-Profit
  - Incentives pay for 65% - 80% of solar field installation
  - On-Site Battery Storage incentives in Illinois are in 85% range
  - Modified "Net Metering" if customer takes advantage of "Smart Meter Rebate"
  - Payback on solar less than 5 years,
  - Payback on Batteries less than 3 years (May want to look into options at Judicial Center)
  - Purchase Price Agreement (PPA) and Lease Agreements are available that allows for solar and Battery with no upfront money.
- Community Solar
  - Guaranteed 10% - 15% savings on Energy Supply vs. ComEd Price to Compare Rate
  - Total Savings of 5% - 8% - off ComEd Invoice
  - Consolidated ComEd invoicing has started.
  - High Demand for these programs

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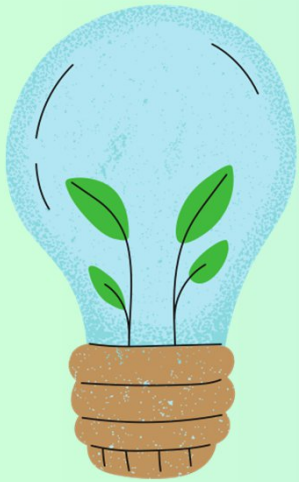
COUNTY OF KANE )

**PRESENTATION/DISCUSSION NO. TMP-25-560**

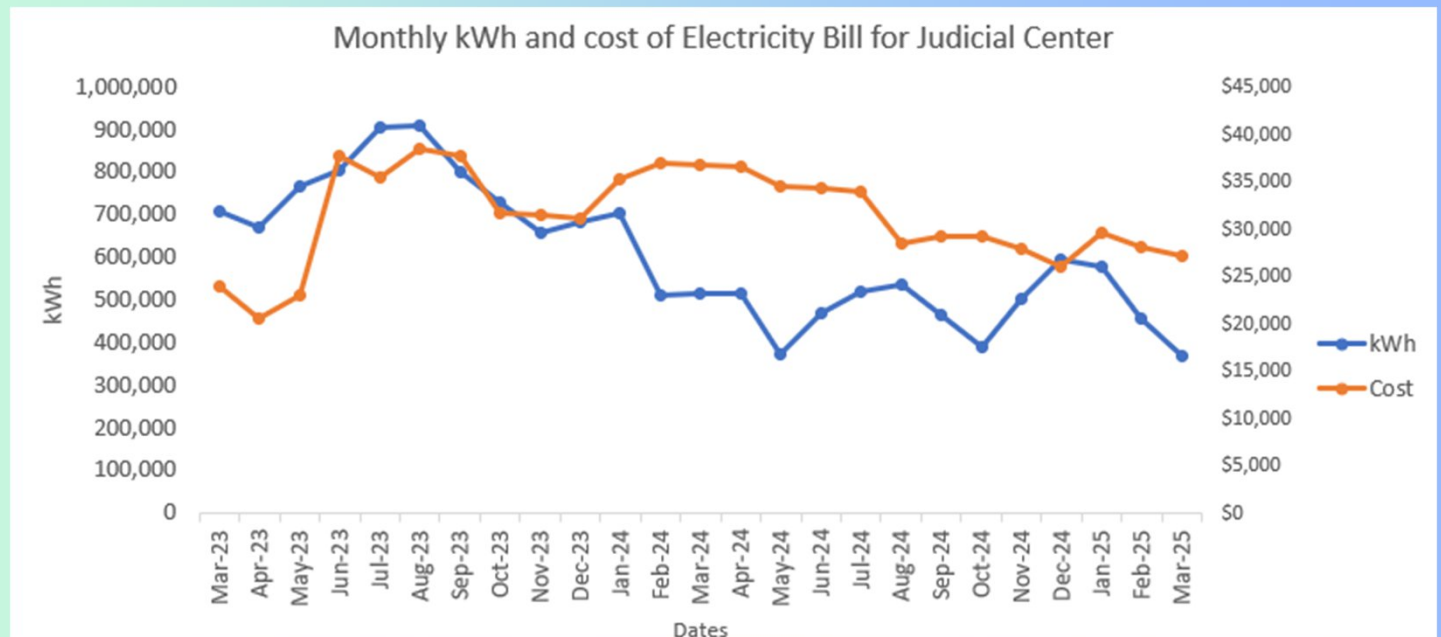
## COST SAVINGS FOR CLEAN ENERGY

Cost savings for  
LED Lights, HVAC  
and Electric Vehicle  
and Charging  
Infrastructure






## Judicial Center Electricity Costs and kWh





Total cost = \$2,380,700 (indoor and outdoor lighting)

Cost of parking lot lights = \$233,367



Fixture Qty.	Fixture Type	Watt/Hr Before	Watt/Hr After	Watt/Hr Removed	kWh Removed	ENERGY SAVINGS
52	GALN-SA8	250	162.5	87.5	19,938	\$2,161
18	GALN-SA3	250	60.5	189.5	14,947	\$1,620
4	GALN-SA7	250	143	107	2,813	\$305
43	GALN-SA5	250	102	148	27,887	\$3,023
39	A4000250	94	14.1	79.9	15,207	\$1,649
6	A4000805	150	21.7	128.3	3,757	\$407
7	SLS1000	91	13	78	2,664	\$289
20	A4000315	75	8.1	66.9	6,529	\$708
35	GR-5105-5	22	2	20	3,416	\$370
1	ITT-300B	1000	300	700	3,416	\$370
2	PL2014	260	82	178	1,737	\$188
27	BRT6-A2-8	133	18	115	15,152	\$1,643
15	FL50-BL-30	458	50	408	29,866	\$3,238
4	3002A-RD	192	25	167	3,260	\$353

Total number of lights = 275

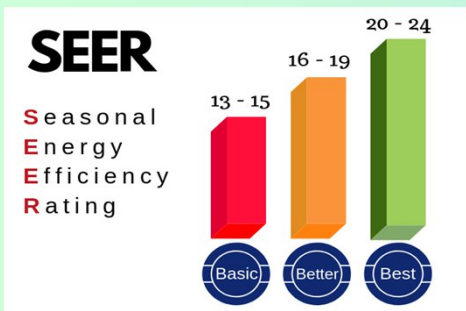
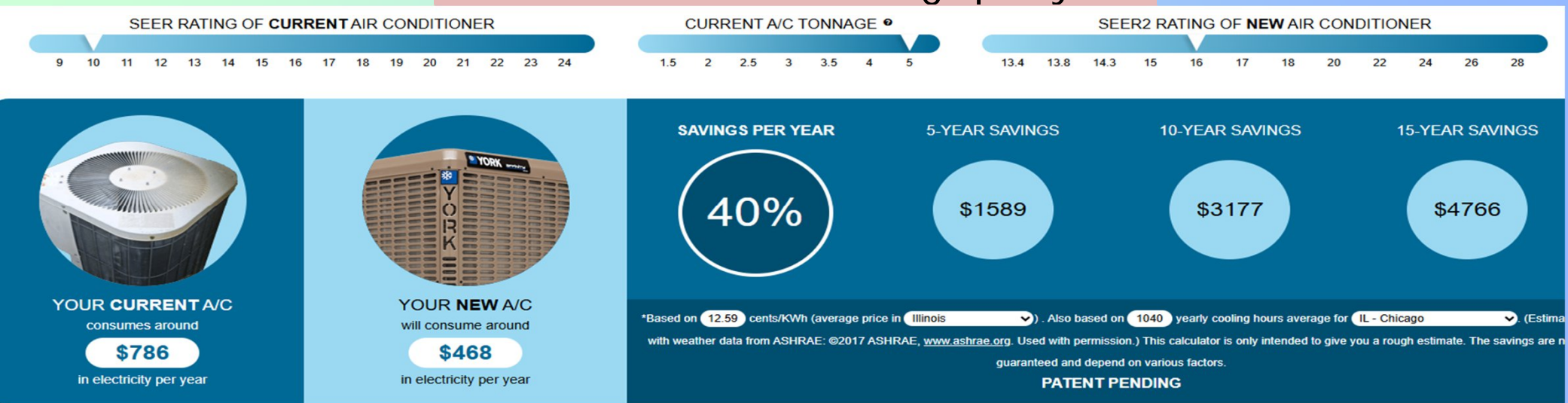
kWh removed = 150,590

Annual cost savings = \$17,305

Note\* The is estimated the lights are 50% dimmed at nighttime when unoccupied

7 New rooftop HVAC units were placed in County Court and Jail  
 \$1,390,000 related to this project: Kitchen and Laundry HVAC Improvements

## Estimate of 1 units savings per year



Potential savings = **\$33,365 over 15 years**  
 More accurate savings will be provided after installation





## IRS TAX CREDITS



## Electric Vehicle and Infrastructure Savings

Item	Cost	Tax Credit	ComEd
Cargo Van 1	\$49,365	\$7,009	\$5,000
Cargo Van 2	\$49,265	\$6,956	\$5,000
Hybrid 1	\$46,733	\$7,500	
Hybrid 2	\$46,377	\$7,500	
Infrastructure	\$21,179	\$6,353	
Charger	\$14,214	\$4,264	\$10,366
	\$227,133	\$39,582	\$20,366
Total Cost savings			\$59,948
Percent returned			26.4%

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## RESOLUTION NO. TMP-25-561

### APPROVING A WEATHERIZATION REBATE PROGRAM FOR KANE COUNTY FARMERS

WHEREAS, a 2014 referendum affirmed Kane County's authority to arrange for the supply of electricity for its residential and small commercial retail customers who have not opted out of such program (Ordinance No. 13 - 334); and

WHEREAS, the Kane County Energy and Environmental Committee directed civic contribution funds from the Electric Aggregation program be used for sustainability-focused measures that directly benefit the community (Resolution 21-322 Creation of Fund 421, March 11, 2022 E&E); and

WHEREAS, the Weatherization Rebate program will use \$20,000 from Fund 421 to directly benefit Kane County farmers by providing funds to offset the cost of weatherization as well as reduce the cost of heating and cooling their homes; and

WHEREAS, the program will offer up to \$800 in rebates per household to qualified farmers who reside in Kane County with requests processed in the order they are received until the funds are exhausted; and

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board and the Chairman thereof approves the Weatherization Rebate Program for Kane County Farmers and authorizes a budget of \$20,000 from the Electric Aggregation Fund 421 to offer weatherization rebates in support of qualified farmers across the County and the budget of Fund 421 is amended to reflect said program.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Chairman is authorized to enter into an agreement with a project partner for the purpose of administering the funds to qualified farmers upon review and approval of the agreement by the State's Attorney's office and that the following adjustments to the FY2025 budget be authorized.

Amount	Description	Account Number
(\$20,000)	Fund Balance Utilization	421.670.000.39900
\$20,000	Contractual/Consulting Services	421.670.693.50150

*Was Personnel/Item/Service approved in original budget or a subsequent budget revision? No*  
*Are funds currently available for this Personnel/Item/Service in the specific line item? Yes*  
*If funds are not currently available in the specified line item, where are the funds available? N/A*

Passed by the Kane County Board on June 10, 2025.

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John A. Cunningham, MBA, JD, JD  
Clerk, County Board  
Kane County, Illinois

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Corinne M. Pierog MA, MBA  
Chairman, County Board  
Kane County, Illinois

Vote:



## RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

### Title

### APPROVING A WEATHERIZATION REBATE PROGRAM FOR KANE COUNTY FARMERS

#### **Committee Flow:**

Energy and Environmental Committee, Finance and Budget Committee, Executive Committee, County Board

#### **Contact:**

Austin Powell – (630) 444-3157

#### **Budget Information:**

Was this item budgeted? No	Appropriation Amount: \$20,000
If not budgeted, explain funding source: 421 Electric Aggregation Fund	
Was this item passed through the appropriate committee? N/A	

#### **Summary:**

The Weatherization Rebate program will use \$20,000 from Fund 421 to directly benefit Kane County farmers by providing funds to offset the cost of weatherization as well as reduce the cost of heating and cooling their homes. The program will offer up to \$800 in rebates per household to qualified farmers who reside in Kane County with requests processed in the order they are received until the funds are exhausted.

# COUNTY OF KANE

Kane County  
Finance Department  
Kathleen Hopkinson  
Executive Director



Kane County Government Center  
Building A  
719 Batavia Avenue  
Geneva, Illinois 60134  
(630) 208-5132  
hopkinsonkathleen@kanecountyil.gov

## Emergency Appropriation and/or Budget Transfer Request Form

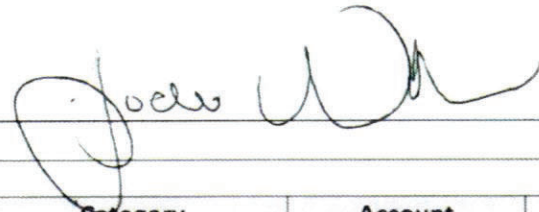
Department Name	Environmental & Water Resources Department
Date	05/28/2025
Fund	421
Category (Personnel Services, Contractual Services, Commodities, or Capital)	Contractual and Consulting Services
Increase or Decrease	Increase
Amount	\$20,000

**Requested Emergency Appropriation and/or Budget Transfer Description and Rationale** (please also attach draft resolution)

Requesting a \$20,000 transfer from 421 fund balance to 421.670.693.50150

### Submitted by

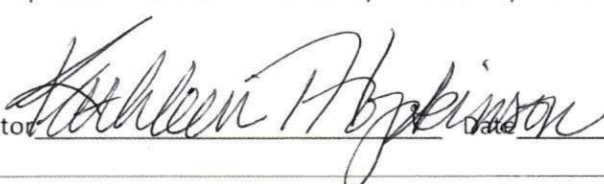
Signature of Elected Official or Department Executive Director

 Date 5/12/25

Category	Account	Approved Budget	Debit	Credit
Personnel Services				
Contractual Services	421.670.693.50150		\$20,000	
Commodities				
Capital				
FUND BAL UTIL 421.670.000.99000				\$20.000

### Reviewed by

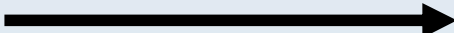
Emergency Appropriation has been reviewed by Finance Department

 5-13-25  
Executive Director

# Farmer Weatherization Rebate Program

# Summary

A rebate program offered to farmers who weatherize their home through air sealing and/or attic insulation.

Total Fund: \$20,000  Funded by the Electric Aggregation Program

## Rebate Amount:

### ➤ \$500

1. Farmers living in Kane County.
2. Uses Nicor Gas for residential heating.

This program would benefit between 25 to 40 farmers.

### ➤ \$800

1. Farmers living in Kane County.
2. Does not use Nicor Gas for residential heating.

# Benefits of Air Sealing and Attic Insulation

- A 2023 study by the [American Council for and Energy-Efficient Economy](#) found that weatherization measures such as air sealing and attic insulation can reduce a home's energy usage by 12 to 18 percent.
- The [US EPA](#) estimates that homeowners can save an average of 15 percent on heating and cooling costs by air sealing their homes and adding insulation in attics, floors over crawl spaces and basements.





# Cost Breakdown & Available Rebates

- The [Minnesota Center for Energy and Environment](#) estimates that air sealing and attic insulation costs between \$2,000 to \$6,500
- Estimates from Qualified Contractors in the Chicago Area (1,700 sq. ft home): ~ \$3400 to \$7000

## Kane County

\$500 or \$800

## Nicor Rebates

Air Sealing: \$250 per home

Attic Insulation: \$400 per home

## Inflation Reduction Act

30% of qualified expenses or up to \$1200

# Cost Breakdown: Kane County

Kane County Rebate without Nicor or IRA				
Service	Estimated Cost	Rebate Amount	Total Cost	% Change
Air Sealing & Attic Insulation	\$3,000	\$800	\$2,200	-26.67%
	\$5,000	\$800	\$4,200	-16.00%
	\$7,000	\$800	\$6,200	-11.43%

# Cost Breakdown: Kane County & Nicor

Kane County Rebate with Nicor				
Service	Estimated Cost	Rebate Amount	Total Cost	% Change
Air Sealing & Attic Insulation	\$3,000	\$1,150	\$1,850	-38.33%
	\$5,000	\$1,150	\$3,850	-23.00%
	\$7,000	\$1,150	\$5,850	-16.43%

# Cost Breakdown: Kane County & IRA

Kane County Rebate with IRA				
Service	Estimated Cost	Rebate Amount	Total Cost	% Change
Air Sealing & Attic Insulation	\$3,000	\$1,400	\$1,600	-46.67%
	\$5,000	\$1,700	\$3,300	-34.00%
	\$7,000	\$1,700	\$5,300	-24.29%

# Cost Breakdown: Kane County + Nicor + IRA

## Kane County Rebate with Nicor & IRA

Service	Estimated Cost	Rebate Amount	Total Cost	% Change
Air Sealing & Attic Insulation	\$3,000	\$2,050	\$950	-68.33%
	\$5,000	\$2,350	\$2,650	-47.00%
	\$7,000	\$2,350	\$4,650	-33.57%

# General Takeaways

- \$20,000 fund offering weatherization rebates to farmers living in Kane County.
- Kane County rebate: \$500 to \$800 reduction in total cost.
- Kane County + Nicor rebate: \$750 to \$1150 reduction in total cost.
- Kane County + IRA rebates: \$1400 to \$1700 reduction in total cost.
- Kane County + Nicor + IRA rebates: \$2050 to \$2350 reduction in total cost.

# Any Questions?

Austin Powell  
Sustainability Coordinator  
[powellaustin@kanecountyil.gov](mailto:powellaustin@kanecountyil.gov)