

# ComEd Whole Home Electric Program Impact Evaluation Report

Energy Efficiency/Demand Response Plan:  
Program Year 2024 (CY2024)  
(1/1/2024-12/31/2024)

Prepared for:

ComEd

**FINAL**

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# Introduction

This report presents the results of the impact evaluation of the Whole Home Electric program from the program year from January 1 to December 31, 2024 (CY2024). The program was designed to provide energy saving products to single family and multifamily homes.

## Program Savings Detail

Table 1 summarizes the incremental energy and demand savings the Whole Home Electric Program achieved in CY2024. The electrification savings are those resulting from electrification measures.<sup>1</sup> All savings result from Income Eligible participants.

**Table 1. Total Annual Incremental Electric Savings - Total**

Savings Category	Units	Ex Ante Gross Savings*	Program Gross Realization Rate	Verified Gross Savings*	Program Net-to-Gross Ratio (NTG)	CY2022 Net Carryover Savings	CY2023 Net Carryover Savings	Verified Net Savings†
Electric Energy Savings - Direct‡	kWh	1,247,217	1.01	1,263,408	1.00			1,263,408
Electric Energy Savings - Converted from Other Fuel§	kWh							
Electric Energy Savings - Indirect from Electrification (electrification kWh baseline)	kWh	6,275,439	1.00	6,299,643	1.00			6,299,643
Total Electric Energy Savings#	kWh	7,522,655	1.01	7,563,051	1.00			7,563,051
Summer Peak**†† Demand Savings	kW	-492	-0.25	123	1.00			123

N/A = not applicable (refers to a piece of data that cannot be produced or does not apply).

\* The “Ex Ante Gross Savings” and “Verified Gross Savings” in row one (Electric Energy Savings - Direct) and row seven (Summer Peak Demand Savings) exclude gross carryover savings from CY2022 and CY2023.

† The “Verified Net Savings” in row one (Electric Energy Savings - Direct) and row seven (Summer Peak Demand Savings) include net carryover savings from CY2022 and CY2023 for applicable programs.

‡ The Electric Energy Savings - Direct includes primary kWh savings from efficient measures (excluding electrification savings from both electrification and efficiency baseline), secondary kWh savings from wastewater treatment, and electric heating penalties.

§ Gas savings converted to kWh by multiplying Therms \* 29.31 (which is based on 100,000 Btu/Therm and 3,412 Btu/kWh). The evaluation team will determine which gas savings will be converted to kWh and counted toward ComEd’s electric savings goal while producing the portfolio-wide Summary Report.

|| Electrification savings excluding direct efficiency savings. Calculated from net electric savings from increase in kWh consumption and decrease in gas consumption from electrification (kWh equivalent). This row calculates savings using electrification baseline. The next row (Electric Energy Savings – Indirect from Electrification (efficiency baseline)) calculates the portion of converted electrification savings to traditional efficiency electric savings using an efficiency baseline, which can be claimable towards ComEd’s electric savings goal (applied to only midstream programs).<sup>2</sup> The evaluation team determined which electrification savings are allocated toward ComEd’s electrification savings goal, and which portion of electrification are converted to traditional efficiency electric savings based on analysis of portfolio-wide verified savings.

# Total Electric Energy Savings is the sum of the Electric Energy Savings - Direct, Electric Energy Savings Converted from Other Fuel, Electric Energy Savings - Indirect from Electrification (electrification baseline), and Electric Energy Savings - Indirect from Electrification (efficiency baseline). Note: This row does not include carryover gross savings,

<sup>1</sup> The electrification savings counted toward ComEd’s electric savings goal were determined by the evaluation team’s analysis of portfolio verified savings. According to Section 8-103B(b-27) of the Illinois Public Utilities Act, “In no event shall electrification savings counted toward each year’s applicable annual total savings requirement, as defined in paragraph (7.5) of subsection (g) of this Section, be greater than 5% per year from 2022 through 2025.”

<sup>2</sup> ComEd Electrification Policy Resolutions for 2024 Final Draft. “...the ComEd Energy Efficiency portfolio will use the Electric Point of Sale baseline set by the TRM, without applying the additional electrification ratios, to claim Energy Efficiency savings from heat-pump projects through midstream programs once either of the electrification caps has been reached.”

but the next row (Total Electric Savings Including Carryover) includes carryover in the gross savings, for the purpose of recalculating the gross realization rate, including carryover savings (same for the peak demand savings).

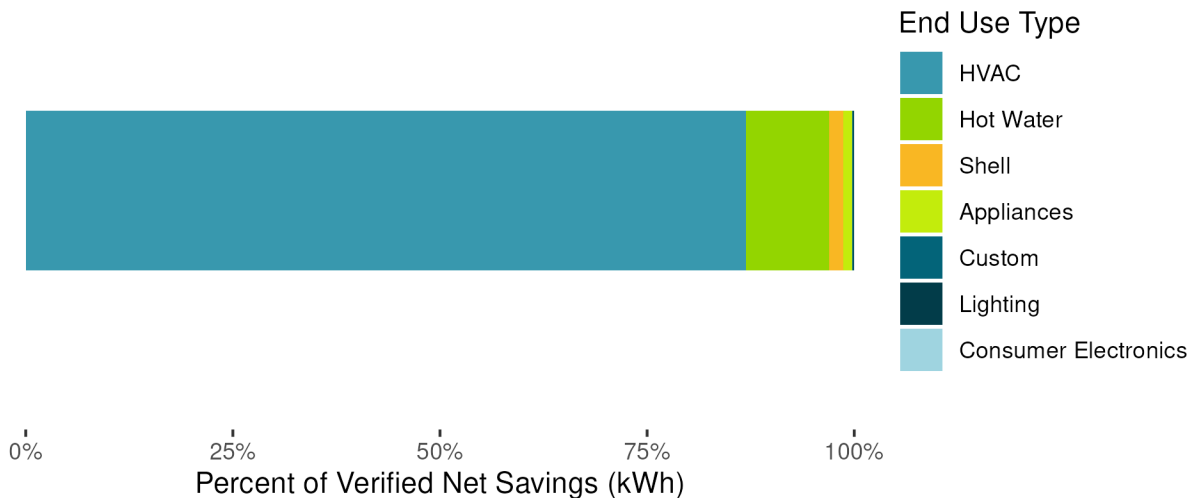
\*† The Peak Demand Savings are savings occurring at coincident Summer Peak period, defined as 1:00-5:00 PM Central Prevailing Time on non-holiday weekdays, June through August. This definition is in accordance with PJM requirements.

Note: The program-level NTG values are calculated as Verified Net/Verified Gross. The program-level analysis typically used measure-level deemed NTG values, which are listed here: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024>. The NTG ratio for eligible business customers in disadvantaged neighborhoods is set to 1.00 as per the “NTG Ratio for Disadvantaged Areas” policy.<sup>3</sup>

Source: Evaluation team analysis

Figure 1 shows the electric energy savings by measure end use. It includes measure efficiency savings, carryover kWh, secondary water kWh, and electrification savings. It does not include other fuel savings converted to kWh.

**Figure 1. Verified Net Savings by Measure – Electric**



Source: Evaluation team analysis

<sup>3</sup> Illinois Energy Efficiency Policy Manual Version 3.0, Section 7.4, available at <https://www.ilsag.info/policy/>

# Cumulative Persisting Annual Savings

Table 2 shows the cumulative persisting annual savings (CPAS) for the measures installed in CY2024.

**Table 2. CPAS - Electric**

Savings Category	Verified Gross Savings (kWh)	Lifetime Net Savings (kWh)†	CPAS Verified Net kWh Savings											
			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027		
CY2024 Program Total Contribution to CPAS	7,563,051	102,671,841									7,563,051	7,563,051	7,563,051	7,563,051
Historic Program Total Contribution to CPAS‡		0												
Program Total CPAS	7,563,051	102,671,841	0	0	0	0	0	0	0	0	7,563,051	7,563,051	7,563,051	7,563,051
CY2024 Program Incremental Expiring Savings§		7,563,051									0	0	0	0
Historic Program Incremental Expiring Savings		0									0	0	0	0
Program Total Incremental Expiring Savings#		7,563,051									0	0	0	0

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CY2024 Program Total Contribution to CPAS	7,563,051	7,561,695	7,166,064	5,689,471	5,684,318	5,684,318	5,628,216	5,444,059	5,444,059	5,441,851	5,428,235	4,672,405	182,149	182,149
Historic Program Total Contribution to CPAS‡														
Program Total CPAS	7,563,051	7,561,695	7,166,064	5,689,471	5,684,318	5,684,318	5,628,216	5,444,059	5,444,059	5,441,851	5,428,235	4,672,405	182,149	182,149
CY2024 Program Incremental Expiring Savings§	0	1,356	395,631	1,476,593	5,153	0	56,102	184,156	0	2,209	13,616	755,830	4,490,257	0
Historic Program Incremental Expiring Savings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	0	1,356	395,631	1,476,593	5,153	0	56,102	184,156	0	2,209	13,616	755,830	4,490,257	0

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
CY2024 Program Total Contribution to CPAS	182,149	181,858	28,359	28,359	28,359	28,359	28,359	28,359	28,359	28,359	28,359	28,359	0	0
Historic Program Total Contribution to CPAS‡														
Program Total CPAS	182,149	181,858	28,359	28,359	28,359	28,359	28,359	28,359	28,359	28,359	28,359	28,359	0	0
CY2024 Program Incremental Expiring Savings§	0	290	153,499	0	0	0	0	0	0	0	0	0	28,359	0
Historic Program Incremental Expiring Savings	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	0	290	153,499	0	0	0	0	0	0	0	0	0	28,359	0

† Lifetime savings are the sum of CPAS savings through the EUL.

‡ Historical savings go back to CY2018.

§ Incremental expiring savings are equal to CPAS Yn-1 - CPAS Yn.

|| Historic incremental expiring savings are equal to Historic CPAS Yn-1 – Historic CPAS Yn.

# Program total incremental expiring savings are equal to current year total incremental expiring savings plus historic total incremental expiring savings.

Source: Evaluation team analysis