

ComEd Behavior Bus/Pub Program Impact Evaluation Report

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

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ComEd

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Table of Contents

Introduction	1
Program Savings Detail	1
Cumulative Persisting Annual Savings	3

List of Tables

Table 1. Total Annual Incremental Electric Savings - Total	1
Table 2. CPAS – Electric	3

Introduction

This report presents the results of the impact evaluation of the Behavior Bus/Pub program from the program year from January 1 to December 31, 2024 (CY2024). The goal of the Behavior Bus/Pub Program is to train participating sites in how to apply a process of continuous energy management improvements that result in energy savings and demand reduction. The program trains participants to identify low-cost and no-cost measures, improve process efficiency, and reduce energy usage and demand through behavioral changes.

The program achieves energy savings through operational and maintenance (O&M) improvements, incremental increases in capital energy efficiency projects, and the identification of additional capital projects that would not otherwise have been considered (e.g., process changes, consideration of energy efficiency in all capital efforts). The program provides training and implementer support to identify O&M improvements. This training usually lasts for 1 year and occurs monthly or bimonthly.

The program is offered to eligible commercial, industrial and public sector customers of ComEd and also jointly to customers served by ComEd, Nicor Gas, Peoples Gas, and North Shore Gas. This report presents the results just for ComEd. The results for the gas utilities will be in separate reports.

Program Savings Detail

Table 1 summarizes the incremental energy and demand savings the Behavior Bus/Pub Program achieved in CY2024.

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		45,798,150	1.00	45,841,394	1.00	N/A	N/A	45,841,394
Electric Energy Savings - Converted from Other Fuels§	kWh	0	N/A	0	N/A	N/A	N/A	0
Electric Energy Savings - Indirect from Electrification (electrification baseline)	kWh	0	N/A	0	N/A	N/A	N/A	0
Electric Energy Savings - Indirect from Electrification (efficiency baseline)	kWh	0	N/A	0	N/A	N/A	N/A	0
Total Electric Energy Savings#	kWh	45,798,150	1.00	45,841,394	1.00	N/A	N/A	45,841,394
Total Electric Energy Savings Including Carryover#	kWh							
Summer Peak*† Demand Savings	kW	0	N/A	0	N/A	N/A	N/A	0
Summer Peak*† Demand Savings Including Carryover	kW							

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).¹ 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, 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.²

Source: *Evaluation team analysis*

¹ 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.”

² 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	45,841,394	320,889,755									45,841,394	45,841,394	45,841,394	45,841,394
Historic Program Total Contribution to CPAS‡			14,039,833	37,336,439	70,918,544	105,064,112	151,108,242	178,290,365	154,993,759	121,411,654	121,411,654	121,411,654	121,411,654	121,411,654
Program Total CPAS			14,039,833	37,336,439	70,918,544	105,064,112	151,108,242	178,290,365	200,835,152	167,253,048	167,253,048	167,253,048	167,253,048	167,253,048
CY2024 Program Incremental Expiring Savings§												0	0	0
Historic Program Incremental Expiring Savings											23,296,606	33,582,105	0	0
Program Total Incremental Expiring Savings#											23,296,606	33,582,105	0	0

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CY2024 Program Total Contribution to CPAS	45,841,394	45,841,394	45,841,394	0	0	0	0	0	0	0	0	0	0	0
Historic Program Total Contribution to CPAS‡	87,266,086	41,221,956	0	0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS	133,107,480	87,063,349	45,841,394	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Incremental Expiring Savings§	0	0	0	45,841,394	0	0	0	0	0	0	0	0	0	0
Historic Program Incremental Expiring Savings	34,145,568	46,044,131	41,221,956	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	34,145,568	46,044,131	41,221,956	45,841,394	0	0	0	0	0	0	0	0	0	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