



ComEd Behavior Bus/Pub Program Impact Evaluation Report

**Energy Efficiency/Demand Response Plan:
Program Year 2023 (CY2023)
(1/1/2023-12/31/2023)**

Prepared for:

ComEd

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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, 2023 (CY2023). 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 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 CY2023.

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)	CY2021 Net Carryover Savings	CY2022 Net Carryover Savings	Verified Net Savings†
Electric Energy Savings - Direct‡	kWh	42,544,332	1.00	42,494,273	0.97	N/A	N/A	41,221,956
Electric Energy Savings - Converted from Other Fuel§	kWh	0	N/A	0	N/A	N/A	N/A	0
Electric Energy Savings - Electrification	kWh	0	N/A	0	N/A	N/A	N/A	0
Total Electric Energy Savings#	kWh	42,544,332	1.00	42,494,273	0.97	N/A	N/A	41,221,956
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 six (Summer Peak Demand Savings) exclude gross carryover savings from CY2021 and CY2022.

† The “Verified Net Savings” in row one and row six excludes carryover savings as they don’t apply to this program.

‡ The Electric Energy Savings – Direct includes primary kWh savings from efficient measures (includes efficiency savings from electrification measures but excludes the electrification savings, however there are no electrification measures in this program), 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) and/or propane savings converted to kWh by multiplying Gallons * 26.77 (which is based on 91,333 Btu/Gallon and 3,412 Btu/kWh). The evaluation team will determine which other fuel 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).

Total Electric Energy Savings is the sum of the Electric Energy Savings – Direct, the Electric Energy Savings Converted from Other Fuel, and the Electrification Savings. Note: This row does not include carryover gross savings, but the next one includes carryover verified gross savings, for the purpose of recalculating the gross realization rate resulting from 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 requirement.

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-2023>. The NTG ratio for eligible business customers in disadvantaged neighborhoods is set to 1.00 as per the “NTG Ratio for Disadvantaged Areas” policy.¹

Source: *Evaluation team analysis*

¹ 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 CY2023.

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	2028
CY2023 Program Total Contribution to CPAS	42,494,273	288,553,690						41,221,956	41,221,956	41,221,956	41,221,956	41,221,956	41,221,956
Historic Program Total Contribution to CPAS [‡]			14,039,833	37,336,439	70,918,544	105,064,112	151,108,242	137,068,409	113,771,803	80,189,698	80,189,698	80,189,698	46,044,131
Program Total 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	87,266,086
CY2023 Program Incremental Expiring Savings [§]									0	0	0	0	0
Historic Program Incremental Expiring Savings								14,039,833	23,296,606	33,582,105	0	0	34,145,568
Program Total Incremental Expiring Savings [#]								14,039,833	23,296,606	33,582,105	0	0	34,145,568

Savings Category	Verified Gross Savings (kWh)	Lifetime Net Savings (kWh) [†]	CPAS Verified Net kWh Savings										
			2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
CY2023 Program Total Contribution to CPAS	42,494,273	288,553,690	41,221,956	0	0	0	0	0	0	0	0	0	0
Historic Program Total Contribution to CPAS [‡]			0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS			41,221,956	0	0	0	0	0	0	0	0	0	0
CY2023 Program Incremental Expiring Savings [§]			0	41,221,956	0	0	0	0	0	0	0	0	0
Historic Program Incremental Expiring Savings			46,044,131	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings [#]			46,044,131	41,221,956	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