

# ComEd EMS - Small Business - Pilot 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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# Introduction

This report presents the results of the impact evaluation of the EMS for Small Business Pilot from the program year from January 1 to December 31, 2024 (CY2024). The pilot was designed to test the implementation and performance of energy management systems (EMS) within small business customer facilities. The pilot successfully recruited a participant into the pilot during CY2024 to test the ability of EMS for small business customers to generate cost-effective operational energy savings.

# Program Savings Detail

Table 1 summarizes the incremental energy and demand savings the EMS for Small Business Pilot 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	77,710	1.00	77,710	0.80			62,168
Electric Energy Savings - Converted from Other Fuel§	kWh							
Electric Energy Savings - Indirect from Electrification (electrification baseline)	kWh							
Electric Energy Savings - Indirect from Electrification (efficiency baseline)	kWh							
Total Electric Energy Savings#	kWh	77,710	1.00	77,710	0.80			62,168
Total Electric Energy Savings Including Carryover#	kWh	77,710	1.00	77,710	0.80			62,168
Summer Peak**† Demand Savings	kW	0		0	0.80			0
Summer Peak**† Demand Savings Including Carryover	kW	0		0	0.80			0

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.

# 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).

Note: Guidehouse conducted secondary research to determine an appropriate NTG value. The evaluation team was unable to identify any program that was comparable to this pilot. Therefore, the evaluation team assigned an NTG value of 0.80 for the pilot program in CY2024.

Source: Evaluation team analysis

# Cumulative Persisting Annual Savings

The electric CPAS across all measures installed in CY2024 is shown in Table 2.

**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	77,710	932,516									62,168	62,168	62,168	62,168
Historic Program Total Contribution to CPAS‡		0	0	0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS	77,710	932,516	0	0	0	0	0	0	0	0	62,168	62,168	62,168	62,168
CY2024 Program Incremental Expiring Savings§		62,168									0	0	0	0
Historic Program Incremental Expiring Savings		0									0	0	0	0
Program Total Incremental Expiring Savings#		62,168									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	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	0	0	0
Historic Program Total Contribution to CPAS‡	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	62,168	0	0	0
CY2024 Program Incremental Expiring Savings§	0	0	0	0	0	0	0	0	0	0	0	62,168	0	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	0	0	0	0	0	0	0	0	0	0	62,168	0	0

  

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
CY2024 Program Total Contribution to CPAS	0	0	0	0	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	0	0	0
Program Total CPAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Incremental Expiring Savings§	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	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