



ComEd ENERGY STAR® Retail Product Platform Market Transformation Program Impact Evaluation Report

Energy Efficiency/Demand Response Plan:
Program Year 2022 (CY2022)
(1/1/2022-12/31/2022)

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Introduction

This report presents the results of the impact evaluation of the ENERGY STAR® Retail Products Platform (ESRPP) program for the program year from January 1 to December 31, 2022 (CY2022). The program was designed to promote higher levels of efficiency in consumer goods sold via retail channels through participation in a national midstream market transformation program. The national ESRPP program began in 2016. ComEd’s ESRPP program launched in June 2020 with the following participating retailers: Best Buy, The Home Depot, Lowe’s, and Nationwide Marketing Group. Abt Electronics also joined ComEd’s ESRPP program in September 2020. Currently, ComEd incentivizes two product categories: top-loading clothes washers and refrigerators. The Northwest Energy Efficiency Alliance (NEEA) facilitates the national ESRPP program and implements ComEd’s ESRPP program.

Program Savings Detail

Table 1 summarizes the incremental energy and demand savings the ESRPP program achieved in CY2022.

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)	CY2020 Net Carryover Savings	CY2021 Net Carryover Savings	Verified Net Savings†
Electric Energy Savings - Direct‡	kWh	2,878,616	3.68	10,602,500	1.00			10,602,500
Electric Energy Savings - Converted from Gas§	kWh	0		0	1.00			0
Electric Energy Savings - Indirect from Fuel Switching (through Electrification)	kWh				1.00			
Total Electric Energy Savings#	kWh	2,878,616	3.68	10,602,500	1.00			10,602,500
Secondary Water Savings	kWh			175,179	1.00			175,179
Summer Peak**† Demand Savings	kW			1,572	1.00			1,572

* Ex ante and verified gross savings exclude gross carryover savings from CY2020 and CY2021.

† The “Verified Net Savings” in row one (Electric Energy Savings - Direct) includes net carryover savings from CY2020 and CY2021 (excludes carryover savings as they do not apply to this program).

‡ The Electric Energy Savings - Direct includes primary kWh savings from efficient measures (includes efficiency savings from fuel switching measures but excludes the fuel switching savings), 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 from fuel switching measures excluding direct efficiency savings calculated from net electric savings from an increase in kWh consumption and decrease in gas consumption from fuel switching (kWh equivalent).

Total Electric Energy Savings is the sum of the Electric Energy Savings - Direct, the Electric Energy Savings Converted from Gas, and the Electrification Savings from fuel switching.

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

Note: ESRPP is a market transformation program and does not apply a program-level NTG value.

Source: Evaluation team analysis

Cumulative Persisting Annual Savings

Table 2 shows the electric CPAS across all measures installed in 2022.

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
CY2022 Program Total Contribution to CPAS	10,602,500	159,282,455					10,602,500	10,602,500	10,602,500	10,602,500	10,602,500	10,602,500	10,602,500
Historic Program Total Contribution to CPAS‡			0	0	103,975	1,372,066	1,372,066	1,372,066	1,372,066	1,372,066	1,372,066	1,372,066	1,372,066
Program Total CPAS	10,602,500	159,282,455	0	0	103,975	1,372,066	11,974,566	11,974,566	11,974,566	11,974,566	11,974,566	11,974,566	11,974,566
CY2022 Program Incremental Expiring Savings§								0	0	0	0	0	0
Historic Program Incremental Expiring Savings								0	0	0	0	0	0
Program Total Incremental Expiring Savings#								0	0	0	0	0	0

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	
CY2022 Program Total Contribution to CPAS	10,602,500	159,282,455	10,602,500	10,602,500	10,602,500	10,602,500	10,602,500	10,602,500	10,602,500	10,602,500	3,615,821	3,615,821	3,615,821	0
Historic Program Total Contribution to CPAS‡			1,372,066	1,372,066	1,372,066	1,372,066	1,372,066	1,372,066	1,268,111	0	0	0	0	0
Program Total CPAS	10,602,500	159,282,455	11,974,566	11,974,566	11,974,566	11,974,566	11,974,566	11,870,611	10,602,500	3,615,821	3,615,821	3,615,821	0	
CY2022 Program Incremental Expiring Savings§			0	0	0	0	0	0	0	0	6,986,679	0	0	3,615,821
Historic Program Incremental Expiring Savings			0	0	0	0	0	0	103,955	1,268,111	0	0	0	0
Program Total Incremental Expiring Savings#			0	0	0	0	0	0	103,955	1,268,111	6,986,679	0	0	3,615,821

Savings Category	Verified Gross Savings (kWh)	Lifetime Net Savings (kWh)†	CPAS Verified Net kWh Savings											
			2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	
CY2022 Program Total Contribution to CPAS	10,602,500	159,282,455	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
Program Total CPAS	10,602,500	159,282,455	0	0	0	0	0	0	0	0	0	0	0	0
CY2022 Program Incremental Expiring Savings§			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
Program Total Incremental Expiring Savings#			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