

ComEd Retail/Online Program Impact Evaluation Report

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

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ComEd

FINAL

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Introduction

This report presents the results of the impact evaluation of the Retail/Online program from the program year from January 1 to December 31, 2024 (CY2024). The program was designed to offer residential customers rebates and instant discounts on select ENERGY STAR-certified appliances, lighting, and other home products. Purchases can be made at any retailer that sells the qualifying ENERGY STAR-certified appliances, including online retailers, such as the ComEd Marketplace. In this program, a portion of the budget is dedicated to income eligible customers by offering higher discounts on select products distributed through participating retailers in targeted geographic areas (e.g., income eligible census tracts), making energy-saving products more affordable for income eligible customers.

The program is offered jointly for Smart Thermostats within the ComEd Marketplace component to customers served by ComEd, Nicor Gas, Peoples Gas, and North Shore Gas. This report presents results for just ComEd. The results for the gas utilities will be in a separate report.

Program Savings Detail

Table 1 summarizes the incremental energy and demand savings the Retail/Online Program achieved in CY2024. The gas or other fuel savings are only those that ComEd may be able to claim, which excludes savings the gas utilities claim, either via joint or non-joint programs.¹ The electrification savings are those resulting from electrification measures.² Table 2 summarizes the savings achieved from income eligible participants and Table 3 summarizes savings from non-income eligible participants. Together they make up the total shown in Table 1.

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	364,884,105	1.01	368,551,620	0.96	13,052,330	260,217	355,567,009
Electric Energy Savings - Converted from Other Fuels§	kWh	1,185,289,465	0.97	1,152,288,535	0.89			1,022,751,687
Electric Energy Savings - Indirect from Electrification (electrification baseline)	kWh	247,648	1.29	319,753	0.86			275,054
Electric Energy Savings - Indirect from Electrification (efficiency baseline)	kWh							
Total Electric Energy Savings#	kWh	1,550,421,219	0.98	1,521,159,907	0.91	13,052,330	260,217	1,378,593,751
Total Electric Energy Savings Including Carryover#	kWh	1,550,421,219	1.00	1,544,273,082	0.89	13,052,330	260,217	1,378,593,751
Summer Peak** Demand Savings	kW	99,086	0.30	29,909	0.96	1,667	0	28,776
Summer Peak** Demand Savings Including Carryover	kW	99,086	0.33	32,828	0.93	1,667	0	30,443

¹ The evaluation will determine which other fuel savings will be counted towards goal while producing the portfolio-wide Summary Report. According to Section 8-103B(b-25) of the Illinois Public Utilities Act, “In no event shall more than 10% of each year’s applicable annual total savings requirement as defined in paragraph (7.5) of subsection (g) of this Section be met through savings of fuels other than electricity.”

² 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 for each year from 2022 through 2025.”

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).³ 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.⁴

Source: Evaluation team analysis

Table 2. Incremental Electric Savings – Income Eligible

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	201,943,234	1.01	202,991,071	1.01	2,254,850	260,217	205,506,138
Electric Energy Savings - Converted from Other Fuel§	kWh	355,949,921	0.99	351,417,655	1.00			351,373,459
Electric Energy Savings - Indirect from Electrification (electrification baseline)	kWh	23,924	1.23	29,529	1.00			29,529
Electric Energy Savings - Indirect from Electrification (efficiency baseline)	kWh							
Total Electric Energy Savings#	kWh	557,917,079	0.99	554,438,255	1.00	2,254,850	260,217	556,679,987
Total Electric Energy Savings Including Carryover#	kWh	557,917,079	1.00	557,254,972	1.00	2,254,850	260,217	556,679,987
Summer Peak*† Demand Savings	kW	32,154	0.65	20,989	1.00	287	0	20,989
Summer Peak*† Demand Savings Including Carryover	kW	32,154	0.66	21,349	1.00	287	0	21,275

³ 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.”

⁴ Illinois Energy Efficiency Policy Manual Version 3.0, Section 7.4, available at <https://www.ilsag.info/policy/>

Footnotes are defined similarly as found in Table 1.

Source: Evaluation team analysis

Table 3. Total Annual Incremental Electric Savings – Non-Income Eligible

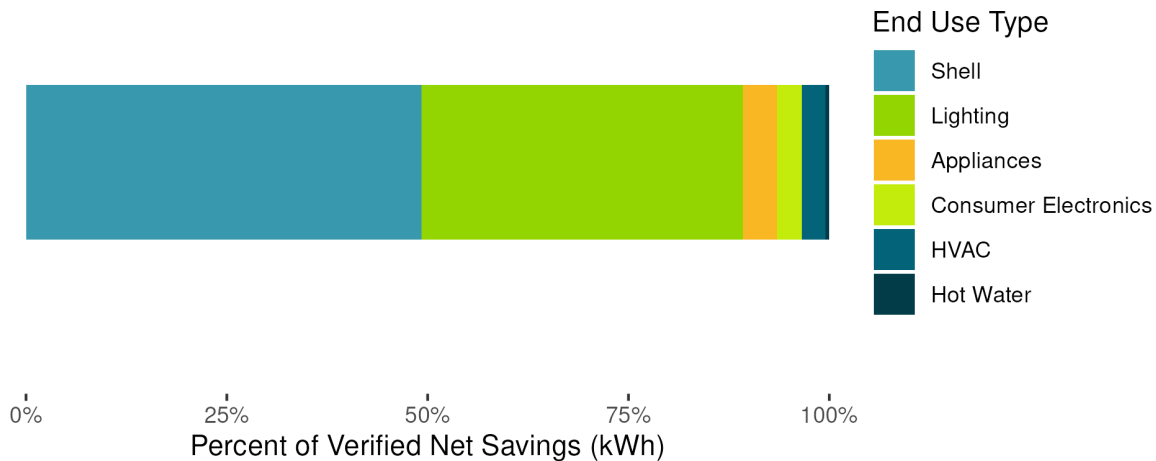
Savings Category	Units	Ex Ante Gross Savings*	Program Gross Realization Rate	Verified Gross Savings*	Program Net-to-Gross Ratio (NTG)	CY2022 Net Carryover Savings	CY2023 Net Carryover Savings	Verified Net Savings†
Electric Energy Savings - Direct‡	kWh	162,940,871	1.02	165,560,549	0.91	10,797,480	0	150,060,872
Electric Energy Savings - Converted from Other Fuels§	kWh	829,339,544	0.97	800,870,880	0.84			671,378,228
Electric Energy Savings - Indirect from Electrification (electrification baseline)	kWh	223,725	1.30	290,223	0.85			245,525
Electric Energy Savings - Indirect from Electrification (efficiency baseline)	kWh							
Total Electric Energy Savings#	kWh	992,504,140	0.97	966,721,652	0.85	10,797,480	0	821,913,764
Total Electric Energy Savings Including Carryover#	kWh	992,504,140	0.99	987,018,110	0.83	10,797,480	0	821,913,764
Summer Peak** Demand Savings	kW	66,932	0.13	8,920	0.87	1,380	0	7,787
Summer Peak** Demand Savings Including Carryover	kW	66,932	0.17	11,479	0.80	1,380	0	9,167

Footnotes are defined similarly as found in Table 1.

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

Cumulative Persisting Annual Savings

Table 4 to Table 6 show the cumulative persisting annual savings (CPAS) for the measures installed in CY2024. The electric CPAS across all measures installed in CY2024 is shown in Table 4. The gas and other fuel contribution to CPAS (converted to equivalent electricity) are shown in Table 5. The combined savings are shown in Table 6.

Table 4. 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	391,984,547	5,014,446,357									355,842,064	355,840,347	355,840,347	355,840,347
Historic Program Total Contribution to CPAS‡		13,752,632,892	382,319,670	656,815,817	942,678,777	1,019,866,484	1,248,775,839	1,445,309,153	1,261,601,161	1,149,460,049	1,060,543,504	993,708,492		
Program Total CPAS		13,071,313,509	382,319,670	656,815,817	942,678,777	1,019,866,484	1,248,775,839	1,445,309,153	1,617,443,224	1,505,300,396	1,416,383,850	1,349,548,839		
CY2024 Program Incremental Expiring Savings§		355,842,064									1,717	0	0	0
Historic Program Incremental Expiring Savings		1,445,309,153									183,707,992	112,141,112	88,916,545	66,835,011
Program Total Incremental Expiring Savings#		1,801,151,216									183,707,992	112,142,829	88,916,545	66,835,011

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
	CY2024 Program Total Contribution to CPAS	349,578,734	349,578,734	349,578,734	338,632,393	209,362,707	197,846,527	194,850,709	184,368,970	182,115,551	182,115,551	176,181,801	175,912,054	175,247,895
Historic Program Total Contribution to CPAS‡	795,553,956	725,287,451	579,949,900	375,473,437	264,858,663	188,423,448	159,263,195	119,839,381	78,351,210	59,418,418	53,546,471	48,738,088	48,636,108	48,178,434
Program Total CPAS	1,145,132,690	1,074,866,185	929,528,633	714,105,830	474,221,370	386,269,975	354,113,904	304,208,351	260,466,761	241,533,969	229,728,273	224,650,142	223,884,003	223,426,329
CY2024 Program Incremental Expiring Savings§	6,261,613	0	0	10,946,341	129,269,686	11,516,179	2,995,819	10,481,739	2,253,419	0	5,933,750	269,747	664,159	0
Historic Program Incremental Expiring Savings	198,154,536	70,266,505	145,337,552	204,476,462	110,614,774	76,435,216	29,160,253	39,423,814	41,488,171	18,932,793	5,871,947	4,808,383	101,980	457,674
Program Total Incremental Expiring Savings#	204,416,149	70,266,505	145,337,552	215,422,804	239,884,460	87,951,395	32,156,072	49,905,553	43,741,589	18,932,793	11,805,696	5,078,130	766,139	457,674

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
	CY2024 Program Total Contribution to CPAS	175,247,895	175,217,103	0	0	0	0	0	0	0	0	0	0	0
Historic Program Total Contribution to CPAS‡	46,035,264	523	0	0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS	221,283,159	175,217,626	0	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Incremental Expiring Savings§	0	30,792	175,217,103	0	0	0	0	0	0	0	0	0	0	0
Historic Program Incremental Expiring Savings	2,143,170	46,034,741	523	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	2,143,170	46,065,533	175,217,626	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

Table 5. CPAS – Other Fuel (Gas + Propane)

Savings Category	Verified Gross Savings (Therms)	Lifetime Net Savings†	CPAS Verified Net Therms Savings											
			2018	2019	2020	2021	2022	2023	2024	2025	2026	2027		
CY2024 Program Total Other Fuel Contribution to CPAS (Therms)	39,313,836	670,898,140									34,894,292	34,893,985	34,893,985	34,893,985
CY2024 Program Total Other Fuel Contribution to CPAS (kWh Equivalent)‡	1,152,288,535	19,664,024,480									1,022,751,687	1,022,742,706	1,022,742,706	1,022,742,706
Historic Program Total Other Fuel Contribution to CPAS (kWh Equivalent)§		11,846,775,791	60,598,906	176,247,714	273,018,371	439,388,860	555,465,875	863,247,857	863,247,857	863,247,857	863,247,857	863,247,857	863,247,857	
Program Total Other Fuel CPAS (kWh Equivalent)		31,510,800,271	60,598,906	176,247,714	273,018,371	439,388,860	555,465,875	863,247,857	1,885,999,544	1,885,990,563	1,885,990,563	1,885,990,563	1,885,990,563	
CY2024 Program Incremental Expiring Other Fuel Savings (Therms)		34,894,292									306	0	0	0
CY2024 Program Incremental Expiring Other Fuel Savings (kWh Equivalent)		1,022,751,687									8,981	0	0	0
Historic Program Incremental Expiring Other Fuel Savings (kWh Equivalent)#		863,247,857									0	0	0	0
Program Total Incremental Expiring Other Fuel Savings (kWh Equivalent)*†		1,885,999,544									0	8,981	0	0

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
	CY2024 Program Total Other Fuel Contribution to CPAS (Therms)	34,893,985	34,893,985	34,893,985	34,893,985	34,893,985	34,893,985	34,362,830	32,053,867	32,053,867	32,053,867	31,905,592	31,905,592	31,905,592
CY2024 Program Total Other Fuel Contribution to CPAS (kWh Equivalent)‡	1,022,742,706	1,022,742,706	1,022,742,706	1,022,742,706	1,022,742,706	1,022,742,706	1,007,174,555	939,498,844	939,498,844	939,498,844	935,152,892	935,152,892	935,152,892	935,152,892
Historic Program Total Other Fuel Contribution to CPAS (kWh Equivalent)§	804,829,319	804,829,319	691,029,819	596,349,352	430,202,409	317,367,849	272,672,692	270,268,779	269,280,169	263,855,735	263,860,122	263,854,431	263,854,431	263,854,431
Program Total Other Fuel CPAS (kWh Equivalent)	1,827,572,02	1,827,572,02	1,713,772,52	1,619,092,05	1,452,945,11	1,340,110,55	1,279,847,24	1,209,767,62	1,208,779,01	1,203,354,57	1,199,013,01	1,199,007,32	1,199,007,32	1,199,007,32
CY2024 Program Incremental Expiring Other Fuel Savings (Therms)	0	0	0	0	0	0	531,155	2,308,963	0	0	148,275	0	0	0

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CY2024 Program Incremental Expiring Other Fuel Savings (kWh Equivalent)	0	0	0	0	0	0	15,568,150	67,675,712	0	0	4,345,952	0	0	0
Historic Program Incremental Expiring Other Fuel Savings (kWh Equivalent)#	58,418,539	0	113,799,500	94,680,467	166,146,943	112,834,560	44,695,157	2,403,913	988,610	5,424,434	-4,387	5,691	0	0
Program Total Incremental Expiring Other Fuel Savings (kWh Equivalent)*†	58,418,539	0	113,799,500	94,680,467	166,146,943	112,834,560	60,263,306	70,079,625	988,610	5,424,434	4,341,565	5,691	0	0

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
CY2024 Program Total Other Fuel Contribution to CPAS (Therms)	31,905,592	31,905,592	0	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Total Other Fuel Contribution to CPAS (kWh Equivalent)‡	935,152,892	935,152,892	0	0	0	0	0	0	0	0	0	0	0	0
Historic Program Total Other Fuel Contribution to CPAS (kWh Equivalent)§	249,707,924	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Total Other Fuel CPAS (kWh Equivalent)	1,184,860,81	935,152,892	0	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Incremental Expiring Other Fuel Savings (Therms)	0	0	31,905,592	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Incremental Expiring Other Fuel Savings (kWh Equivalent)	0	0	935,152,892	0	0	0	0	0	0	0	0	0	0	0
Historic Program Incremental Expiring Other Fuel Savings (kWh Equivalent)#	14,146,507	249,707,924	0	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Other Fuel Savings (kWh Equivalent)*†	14,146,507	249,707,924	935,152,892	0	0	0	0	0	0	0	0	0	0	0

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

‡ Fossil fuel savings (from natural gas, propane, etc.) are reported in therms. kWh equivalent savings are calculated by multiplying therms savings by 29.31.

§ 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

Table 6. CPAS – Total

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	1,544,273,082	24,678,470,837									1,378,593,751	1,378,583,052	1,378,583,052	1,378,583,052
Historic Program Total Contribution to CPAS‡		25,599,408,684	443,124,067	833,269,023	1,215,902,640	1,459,255,345	1,804,241,656	2,308,556,952	2,124,839,403	2,012,698,293	1,923,781,747	1,856,955,848		
Program Total CPAS		50,277,879,520	443,124,067	833,269,023	1,215,902,640	1,459,255,345	1,804,241,656	2,308,556,952	3,503,433,153	3,391,281,345	3,302,364,799	3,235,538,901		
CY2024 Program Incremental Expiring Savings§		1,378,593,751									10,698	0	0	0
Historic Program Incremental Expiring Savings		2,308,556,952									183,717,549	112,141,110	88,916,545	66,825,899
Program Total Incremental Expiring Savings#		3,687,150,703									183,717,549	112,151,809	88,916,545	66,825,899

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CY2024 Program Total Contribution to CPAS	1,372,321,439	1,372,321,439	1,372,321,439	1,361,375,098	1,232,105,413	1,220,589,233	1,202,025,265	1,123,867,814	1,121,614,395	1,121,614,395	1,111,334,694	1,111,064,946	1,110,400,787	1,110,400,787
Historic Program Total Contribution to CPAS‡	1,600,382,804	1,530,115,112	1,270,977,276	971,820,374	695,013,588	505,745,042	431,869,709	389,961,800	347,485,019	323,147,715	317,406,593	312,592,519	312,490,220	312,032,546
Program Total CPAS	2,972,704,243	2,902,436,552	2,643,298,716	2,333,195,472	1,927,119,001	1,726,334,275	1,633,894,974	1,513,829,613	1,469,099,415	1,444,762,110	1,428,741,287	1,423,657,465	1,422,891,008	1,422,433,334
CY2024 Program Incremental Expiring Savings§	6,261,613	0	0	10,946,341	129,269,686	11,516,179	18,563,968	78,157,451	2,253,419	0	10,279,701	269,747	664,159	0
Historic Program Incremental Expiring Savings	256,573,045	70,267,691	259,137,836	299,156,902	276,806,786	189,268,547	73,875,332	41,907,910	42,476,780	24,337,304	5,741,122	4,814,074	102,299	457,674
Program Total Incremental Expiring Savings#	262,834,657	70,267,691	259,137,836	310,103,243	406,076,472	200,784,726	92,439,300	120,065,361	44,730,199	24,337,304	16,020,823	5,083,822	766,458	457,674

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
CY2024 Program Total Contribution to CPAS	1,110,400,787	1,110,369,996	0	0	0	0	0	0	0	0	0	0	0	0
Historic Program Total Contribution to CPAS‡	295,742,869	523	0	0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS	1,406,143,657	1,110,370,518	0	0	0	0	0	0	0	0	0	0	0	0
CY2024 Program Incremental Expiring Savings§	0	30,792	1,110,369,996	0	0	0	0	0	0	0	0	0	0	0
Historic Program Incremental Expiring Savings	16,289,677	295,742,347	523	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	16,289,677	295,773,139	1,110,370,518	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