

ComEd Single-Family Upgrades 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 Single Family Upgrades program from the program year from January 1 to December 31, 2024 (CY2024). The program was designed to provide energy saving products to single family homes.

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 Single Family Upgrades 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		15,090,324	0.99	14,939,598	1.00	111,751	94,290	14,967,742
Electric Energy Savings - Converted from Other Fuels§ kWh		43,433,580	1.00	43,641,231	1.00			43,448,744
Electric Energy Savings - Indirect from Electrification (electrification baseline) kWh								
Electric Energy Savings - Indirect from Electrification (efficiency baseline) kWh								
Total Electric Energy Savings# kWh		58,523,904	1.00	58,580,829	1.00	111,751	94,290	58,416,487
Total Electric Energy Savings Including Carryover# kWh		58,523,904	1.00	58,693,204	1.00	111,751	94,290	58,416,487
Summer Peak*† Demand Savings kW		2,871	1.00	2,862	1.00	15	12	2,864
Summer Peak*† Demand Savings Including Carryover kW		2,871	1.00	2,877	1.00	15	12	2,864

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.

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.”

§ 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	14,262,773	1.00	14,207,925	1.00	39,991	33,743	14,241,668
Electric Energy Savings - Converted from Other Fuels§	kWh	39,726,226	1.01	39,944,412	1.00			39,944,331
Electric Energy Savings - Indirect from Electrification (electrification baseline)	kWh							
Electric Energy Savings - Indirect from Electrification (efficiency baseline)								
Total Electric Energy Savings#	kWh	53,988,999	1.00	54,152,337	1.00	39,991	33,743	54,185,999
Total Electric Energy Savings Including Carryover#	kWh	53,988,999	1.00	54,152,337	1.00	39,991	33,743	54,185,999
Summer Peak*† Demand Savings	kW	2,740	1.00	2,742	1.00	5	4	2,742
Summer Peak*† Demand Savings Including Carryover	kW	2,740	1.00	2,746	1.00	5	4	2,746

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	827,551	0.88	731,673	0.99	39,991	33,743	726,074
Electric Energy Savings - Converted from Other Fuels§	kWh	3,707,354	1.00	3,696,819	0.95			3,504,413

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/>

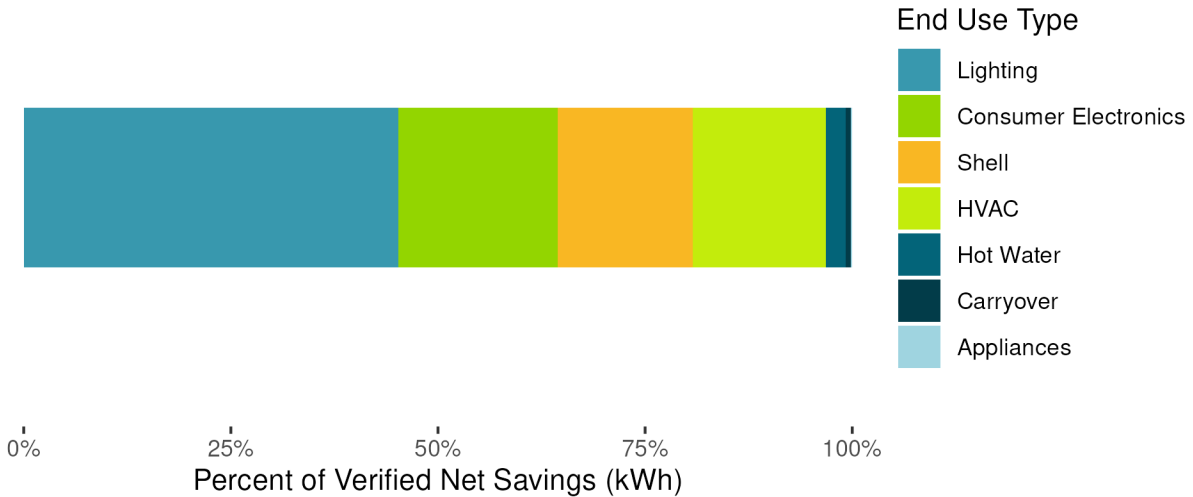
Savings Category	Units	Ex Ante Gross Savings*	Program Gross Realization Rate	Verified Gross Savings*	Program Net-to-Gross Ratio (NTG)	CY2022 Net Carryover Savings	CY2023 Net Carryover Savings	Verified Net Savings†
Electric Energy Savings - Indirect from Electrification (electrification kWh baseline)								
Electric Energy Savings - Indirect from Electrification (efficiency baseline)								
Total Electric Energy Savings#	kWh	4,534,905	0.98	4,428,492	0.96	39,991	33,743	4,230,488
Total Electric Energy Savings Including Carryover#	kWh	4,534,905	0.98	4,428,492	0.96	39,991	33,743	4,230,488
Summer Peak*† Demand Savings	kW	131	0.92	120	0.91	5	4	110
Summer Peak*† Demand Savings Including Carryover	kW	131	0.75	98	1.21	5	4	118

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	15,051,973	160,582,637									14,967,742	14,967,742	14,967,742	14,622,330	
Historic Program Total Contribution to CPAS‡	17,773,272	221,979,056	27,169,963	58,956,418	73,452,481	79,772,240	95,786,882	109,565,766	90,805,308	80,401,073	74,678,908	72,507,277			
Program Total CPAS	32,825,246	681,691,417	27,169,963	58,956,418	73,452,481	79,772,240	95,786,882	109,565,766	32,670,859	95,368,815	89,646,650	87,129,607			
CY2024 Program Incremental Expiring Savings§												0	0	345,412	
Historic Program Incremental Expiring Savings												0	10,404,235	5,722,165	2,171,631
Program Total Incremental Expiring Savings#												0	10,404,235	5,722,165	2,517,043

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CY2024 Program Total Contribution to CPAS	14,622,330	14,519,540	14,065,647	11,165,879	4,482,200	4,482,200	3,670,098	2,802,649	2,792,698	2,782,858	2,782,858	2,635,774	2,505,443	2,505,443
Historic Program Total Contribution to CPAS‡	53,237,471	45,145,585	37,547,819	25,119,341	17,593,085	14,450,279	13,562,005	13,537,694	13,462,483	12,671,801	11,193,880	7,481,993	6,715,748	4,634,643
Program Total CPAS	67,859,801	59,665,125	51,613,466	36,285,220	22,075,285	18,932,479	17,232,103	16,340,343	16,255,182	15,454,659	13,976,738	10,117,767	9,221,191	7,140,086
CY2024 Program Incremental Expiring Savings§	0	102,791	453,893	2,899,768	6,683,680	0	812,102	867,450	9,950	9,841	0	147,084	130,331	0
Historic Program Incremental Expiring Savings	19,269,806	8,091,886	7,597,766	12,428,478	7,526,256	3,142,806	888,274	24,311	75,211	790,682	1,477,921	3,711,887	766,245	2,081,105
Program Total Incremental Expiring Savings#	19,269,806	8,194,676	8,051,659	15,328,246	14,209,935	3,142,806	1,700,376	891,761	85,161	800,523	1,477,921	3,858,970	896,577	2,081,105

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
CY2024 Program Total Contribution to CPAS	2,451,203	2,130,369	1,066,616	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	0	0
Historic Program Total Contribution to CPAS‡	2,661,582	754	0	0	0	0	0	0	0	0	0	0	0	0
Program Total CPAS	5,112,785	2,131,123	1,066,616	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	1,065,920	0	0
CY2024 Program Incremental Expiring Savings§	54,240	320,834	1,063,753	697	0	0	0	0	0	0	0	0	1,065,920	0
Historic Program Incremental Expiring Savings	1,973,061	2,660,828	754	0	0	0	0	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	2,027,301	2,981,662	1,064,506	697	0	0	0	0	0	0	0	0	1,065,920	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)	1,488,954	27,133,193									1,482,386	1,482,386	1,482,386	1,413,154	
CY2024 Program Total Other Fuel Contribution to CPAS (kWh Equivalent)‡	43,641,231	795,273,899									43,448,744	43,448,744	43,448,744	41,419,552	
Historic Program Total Other Fuel Contribution to CPAS (kWh Equivalent)§	43,820,836	775,273,522	1,480,075	2,178,396	10,471,724	21,634,821	57,346,933	99,782,289	99,411,664	97,263,854	96,438,123	95,957,059			
Program Total Other Fuel CPAS (kWh Equivalent)	87,462,067	1,570,547,422	1,480,075	2,178,396	10,471,724	21,634,821	57,346,933	99,782,289	142,860,409	140,712,599	139,886,867	137,376,610			
CY2024 Program Incremental Expiring Other Fuel Savings (Therms)												0	0	69,232	
CY2024 Program Incremental Expiring Other Fuel Savings (kWh Equivalent)												0	0	2,029,192	
Historic Program Incremental Expiring Other Fuel Savings (kWh Equivalent)#												370,625	2,147,810	825,732	481,064
Program Total Incremental Expiring Other Fuel Savings (kWh Equivalent)*†												370,625	2,147,810	825,732	2,510,256

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)	1,413,154	1,346,435	1,320,651	1,320,651	1,319,168	1,319,168	1,148,322	891,077	891,077	873,367	872,027	863,183	837,252	837,252
CY2024 Program Total Other Fuel Contribution to CPAS (kWh Equivalent)‡	41,419,552	39,464,014	38,708,289	38,708,289	38,664,822	38,664,822	33,657,332	26,117,478	26,117,478	25,598,374	25,559,098	25,299,900	24,539,847	24,539,847
Historic Program Total Other Fuel Contribution to CPAS (kWh Equivalent)§	94,543,994	94,075,007	92,631,733	91,965,653	84,591,177	77,574,552	74,560,069	73,438,985	72,848,333	72,186,236	71,190,880	70,533,418	63,107,588	53,241,538
Program Total Other Fuel CPAS (kWh Equivalent)	135,963,546	133,539,022	131,340,022	130,673,942	123,255,999	116,239,375	108,217,400	99,556,463	98,965,811	97,784,610	96,749,978	95,833,318	87,647,435	77,781,385
CY2024 Program Incremental Expiring Other Fuel Savings (Therms)	0	66,719	25,784	0	1,483	0	170,846	257,245	0	17,711	1,340	8,843	25,932	0
CY2024 Program Incremental Expiring Other Fuel Savings (kWh Equivalent)	0	1,955,537	755,726	0	43,466	0	5,007,491	7,539,853	0	519,104	39,275	259,198	760,053	0
Historic Program Incremental Expiring Other Fuel Savings (kWh Equivalent)#	1,413,065	468,986	1,443,274	666,080	7,374,476	7,016,625	3,014,483	1,121,084	590,651	662,097	995,356	657,462	7,425,830	9,866,050

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Program Total Incremental Expiring Other Fuel Savings (kWh Equivalent)*†	1,413,065	2,424,524	2,199,000	666,080	7,417,942	7,016,625	8,021,974	8,660,938	590,651	1,181,201	1,034,632	916,660	8,185,883	9,866,050

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)	837,252	837,252	436,178	436,526	436,526	437,661	437,661	432,208	432,208	432,208	432,208	432,208	0	0
CY2024 Program Total Other Fuel Contribution to CPAS (kWh Equivalent)‡	24,539,847	24,539,847	12,784,382	12,794,586	12,794,586	12,827,849	12,827,849	12,668,005	12,668,005	12,668,005	12,668,005	12,668,005	0	0
Historic Program Total Other Fuel Contribution to CPAS (kWh Equivalent)§	34,594,037	398,003	376,342	368,964	362,148	155,910	0	0	0	0	0	0	0	0
Program Total Other Fuel CPAS (kWh Equivalent)	59,133,884	24,937,850	13,160,724	13,163,550	13,156,733	12,983,759	12,827,849	12,668,005	12,668,005	12,668,005	12,668,005	12,668,005	0	0
CY2024 Program Incremental Expiring Other Fuel Savings (Therms)	0	0	401,074	-348	0	-1,135	0	5,454	0	0	0	0	432,208	0
CY2024 Program Incremental Expiring Other Fuel Savings (kWh Equivalent)	0	0	11,755,465	-10,203	0	-33,263	0	159,844	0	0	0	0	12,668,005	0
Historic Program Incremental Expiring Other Fuel Savings (kWh Equivalent)#	18,647,501	34,196,034	21,661	7,377	6,817	206,238	155,910	0	0	0	0	0	0	0
Program Total Incremental Expiring Other Fuel Savings (kWh Equivalent)*†	18,647,501	34,196,034	11,777,125	-2,826	6,817	172,975	155,910	159,844	0	0	0	0	12,668,005	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	58,693,204	955,856,536									58,416,487	58,416,486	58,416,486	56,041,882
Historic Program Total Contribution to CPAS‡	61,594,109	997,252,578	28,650,038	61,134,814	83,924,204	101,407,062	153,133,815	209,348,055	190,216,972	177,664,928	171,117,030	171,117,030	168,464,336	168,464,336
Program Total CPAS	120,287,313	1,953,109,115	28,650,038	61,134,814	83,924,204	101,407,062	153,133,815	209,348,055	248,633,459	236,081,414	229,533,517	229,533,517	224,506,218	224,506,218
CY2024 Program Incremental Expiring Savings§											0	0	0	2,374,604
Historic Program Incremental Expiring Savings											19,131,083	12,552,045	6,547,897	2,652,695
Program Total Incremental Expiring Savings#											19,131,083	12,552,045	6,547,897	5,027,299

Savings Category	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CY2024 Program Total Contribution to CPAS	56,041,882	53,983,554	52,773,936	49,874,168	43,147,022	43,147,022	37,327,430	28,920,127	28,910,177	28,381,232	28,341,956	27,935,674	27,045,290	27,045,290
Historic Program Total Contribution to CPAS‡	147,781,464	139,220,592	130,179,552	117,084,994	102,184,262	92,024,832	88,122,074	86,976,679	86,310,816	84,858,037	82,384,760	78,015,411	69,823,336	57,876,181
Program Total CPAS	203,823,347	193,204,146	182,953,488	166,959,162	145,331,285	135,171,854	125,449,504	115,896,806	115,220,993	113,239,269	110,726,716	105,951,085	96,868,626	84,921,471
CY2024 Program Incremental Expiring Savings§	0	2,058,328	1,209,618	2,899,768	6,727,146	0	5,819,593	8,407,303	9,950	528,945	39,275	406,282	890,384	0
Historic Program Incremental Expiring Savings	20,682,871	8,560,872	9,041,040	13,094,558	14,900,732	10,159,431	3,902,757	1,145,395	665,863	1,452,779	2,473,277	4,369,349	8,192,075	11,947,155
Program Total Incremental Expiring Savings#	20,682,871	10,619,200	10,250,659	15,994,326	21,627,878	10,159,431	9,722,350	9,552,698	675,813	1,981,724	2,512,553	4,775,631	9,082,459	11,947,155

Savings Category	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055
CY2024 Program Total Contribution to CPAS	26,991,050	26,670,216	13,850,999	13,860,505	13,860,505	13,893,769	13,893,769	13,733,924	13,733,924	13,733,924	13,733,924	13,733,924	0	0
Historic Program Total Contribution to CPAS‡	37,255,619	398,756	376,342	368,964	362,148	155,910	0	0	0	0	0	0	0	0
Program Total CPAS	64,246,669	27,068,972	14,227,341	14,229,470	14,222,653	14,049,678	13,893,769	13,733,924	13,733,924	13,733,924	13,733,924	13,733,924	0	0
CY2024 Program Incremental Expiring Savings§	54,240	320,834	12,819,217	-9,506	0	-33,263	0	159,844	0	0	0	0	13,733,924	0
Historic Program Incremental Expiring Savings	20,620,562	36,856,863	22,414	7,377	6,817	206,238	155,910	0	0	0	0	0	0	0
Program Total Incremental Expiring Savings#	20,674,802	37,177,697	12,841,632	-2,129	6,817	172,975	155,910	159,844	0	0	0	0	13,733,924	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