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| ComEd Summary Impact Evaluation Report  Energy Efficiency/Demand Response Plan:  Program Year 2023 (CY2023) (1/1/2023-12/31/2023) | | |
| Prepared for:  ComEd  DRAFT  March 22, 2024 | | |
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# Introduction

This report presents the results of the impact evaluation of ComEd’s Program Year 2023 (CY2023) slate of energy efficiency programs offered under the Energy Efficiency Portfolio Standard (EEPS) umbrella. It presents a summary of the energy and peak demand impacts for the portfolio and each program and some detail on measure-specific savings. CY2023 covers January 1, 2023 through December 31, 2023.

In CY2023, ComEd’s portfolio evaluation included 19 programs, including 7 Business, 7 Residential/Income Eligible (RES/IE), 2 Pilot programs, one Market Transformation program and one cross-cutting program, Voltage Optimization, as listed in Table 1‑1.

This summary report contains program savings that ComEd can claim for CY2023 including

* Savings from efficient measures, including direct efficiency kWh savings from non-fuel switching and fuel switching measures,
* Net electrification savings from increase in kWh consumption and decrease in gas consumption from fuel switching (kWh equivalent) that ComEd can claim toward its goal,
* Reduction in water usage that produces secondary kWh savings from water supply and wastewater treatment,
* Gas savings in therms converted to kWh that ComEd can claim toward its goal,
* Electric heating penalties, wherever applicable,
* The portion of savings realized from the income eligible sector (non-fuel switching and fuel switching measures).
* Purchased kWh savings from Nicor Gas’ Air Sealing and Insulation (ASI) offering

Process evaluation findings and results of net-to-gross research are presented in separate reports.

Five programs had carryover savings from measures sold or incented in CY2021 and CY2022 that were installed in CY2023. The programs are Midstream/Upstream, Small Business, Retail Online, Product Distribution, and Single Family Upgrades.

This report includes five programs that ComEd implemented jointly or coordinated with Nicor Gas Company, Peoples Gas Light and Coke Company (“PGL”) and North Shore Gas Company (“NSG”). This included Single Family Upgrades, Multi-family Upgrades, New Construction (Business/Public), Income Eligible New Construction, and Targeted Systems (Coordinated Retrocommissioning and Building Operator Certification).

Table 1‑1: ComEd CY2023 Energy Efficiency Programs

| Sector | Program |
| --- | --- |
| Voltage Optimization | Voltage Optimization |
| Business & Public Sector |  |
| Business & Public Sector | Assessments |
| Business & Public Sector | Behavior - Business/Public |
| Business & Public Sector | Incentives |
| Business & Public Sector | Midstream/Upstream |
| Business & Public Sector | New Construction - Business/Public |
| Business & Public Sector | Small Business |
| Business & Public Sector | Targeted Systems |
| Residential (Res) & Income Eligible (IE) |  |
| Res & IE | Behavior-Residential/IE |
| Res & IE | Contractor/Midstream Rebates |
| Res & IE | Multifamily Upgrades |
| Res & IE | New Construction - IE |
| Res & IE | New Construction - Pilot |
| Res & IE | Product Distribution |
| Res & IE | Retail/Online |
| Res & IE | Single Family Upgrades |
| Res & IE | ASI kWh Savings |
| Pilots & Market Transformation |  |
| Pilot | Heat Pump Water Heater Pilot |
| Pilot | Industrial Energy Management Information Systems |
| Market Transformation | ENERGY STAR Retail Products Platform |

Notes: Table contains only programs where Guidehouse submitted impact reports to ComEd.  
*Source: ComEd tracking data and Guidehouse evaluation reports*.

# Portfolio Savings

The evaluation calculated incremental annual savings and cumulative persisting annual savings (CPAS) from the ComEd CY2023 programs. Each is presented below.

## Annual Savings

Table 2‑1 summarizes the incremental energy and peak demand savings the ComEd portfolio achieved in CY2023. This table includes primary kWh savings from efficient measures, legacy savings, and electrification (fuel switch) savings, which are capped at 5% per year of the applicable annual total savings (AATS), according to 220 ILCS 5/8-103B(b-27) of the Illinois Public Utilities Act. The fuel switching electrification savings are in addition to the 10% cap of AATS that ComEd can claim from non-electricity energy savings (include gas savings converted to electricity) allowed under Section 8-103B(b-25). The table presents the applicable annual incremental goal achieved in CY2023. The terms and calculation approaches are defined in Section 2.2.

Table 2‑1: Total Annual Savings

| Key | Savings Category | Energy  Savings  (kWh) | Peak Demand  Savings  (kW)\* |
| --- | --- | --- | --- |
| A | Ex Ante Gross Savings - Direct | 1,337,689,485 | 274,539 |
| B | Portfolio Gross Realization Rate | 1.07 | 0.78 |
| C | Verified Gross Savings - Direct† | 1,424,965,634 | 214,816 |
| D | Portfolio Net-to-Gross Ratio (NTG) | 0.99 | 1.00 |
| E | Verified Net Savings (excl. Electrification Savings) | 1,407,212,630 | 214,022 |
| F | Verified Net Savings (incl. Electrification Savings) | 1,431,727,842 | 214,022 |
| G | Verified IE Net Savings (excl. Electrification Savings) | 462,101,161 | 55,940 |
| H | Verified IE Net Savings (incl. Electrification Savings) | 468,229,964 | 55,940 |
| I | ASI kWh Purchase | 791,055 | 377 |
| J | Legacy Savings‡ | 2,573,016,371 |  |
| K | Other Fuel Savings Eligible for Claiming (Therms) | 14,028,116 |  |
| L | Other Fuel Savings Counted Toward Goal (Therms) | 5,277,551 |  |
| M | Other Fuel Savings Counted Toward Goal (kWh)§ | 154,685,034 |  |
| N | Electrification Savings (from Fuel Switch) Eligible for Claiming | 39,997,969 |  |
| O | Electrification Savings (from Fuel Switch) Counted Toward Goal || | 24,515,212 |  |
| P | Total Net Savings (Electric-Direct + Gas Savings Counted + Electrification Savings Counted) | 1,586,412,876 | 214,022 |
| Q | Historic Portfolio Total Savings (Electric + Gas Savings Counted + Electrification)# | 7,867,930,408 |  |
| R | Grand Total Net Savings (Plus Legacy, Total Net Savings, Historic Savings) | 12,027,359,655 | 214,022 |
| S | Historic Incremental Expiring Savings\*† | 215,326,019 |  |
| T | Legacy Incremental Expiring Savings | 360,980,895 |  |
| U | CPAS Statutory Goal†‡ | 11,952,076,046 |  |
| V | CPAS Achieved as Percent of Goal | 100.6% |  |
| W | Applicable Annual Incremental Goal (AAIG)†§ | 970,543,422 |  |
| X | Applicable Annual Total Savings (AAIG + Legacy Expiring + Historic Expiring Savings)‡§ | 1,546,850,336 |  |
| Y | Applicable Annual Incremental Savings Achieved‡|| | 1,010,105,961 |  |
| Z | AAIG Achieved as Percent of Goal | 104.1% |  |

Notes: The totals in this table may vary slightly from the totals in other tables and the totals summed across the individual program reports due to rounding error.  
**Carryover**: Verified gross savings include carryover savings.  
**Portfolio NTG Ratio**: Guidehouse calculated the portfolio NTG ratio by dividing the total net savings by the total verified gross savings. However, some programs do not report ex ante gross savings and only report net savings (e.g., the Residential Behavior program). Where the evaluation approach also produces net savings as its primary output, we did not calculate verified gross 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.  
† 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.  
‡ Legacy Savings are estimated by multiplying statutory 2023 CPAS Legacy Savings percent (3.1%) by ComEd Baseline - 2014-2016 Average Annual Sales Less Exempt Customers MWh value of 83,000,528.  
§ Gas savings are converted to kWh by multiplying therms by 29.31 (which is based on 100,000 Btu/therm and 3,412 Btu/kWh).   
|| Electrification savings from fuel switching measures excluding direct efficiency savings. Calculated from net electric savings from increase in kWh consumption and decrease in gas consumption from fuel switching (kWh equivalent).  
# Historical savings go back to CY2018.  
\*† Incremental expiring savings are equal to CPAS Yn-1 - CPAS Yn.  
†‡ Estimated by multiplying statutory 2023 CPAS Goal percent (14.4%) by ComEd Baseline - 2014-2016 Average Annual Sales Less Exempt Customers MWh value of 83,000,528.  
†§ Applicable Annual Incremental Goal (AAIG) is equal to CPAS Yn Goal - CPAS Yn-1 Goal

‡§ Applicable Annual Total Savings (AATS) is the savings needed to achieve 100% AAIG (it is sum of AAIG, Legacy Expiring Savings and Historic Expiring Savings).  
‡|| Estimated as new incremental savings from 2023 after offsetting incremental expiring savings in 2023.  
*Source: ComEd tracking data and evaluation team analysis*

Table 2‑2 summarizes the incremental energy and demand savings achieved in CY2023.

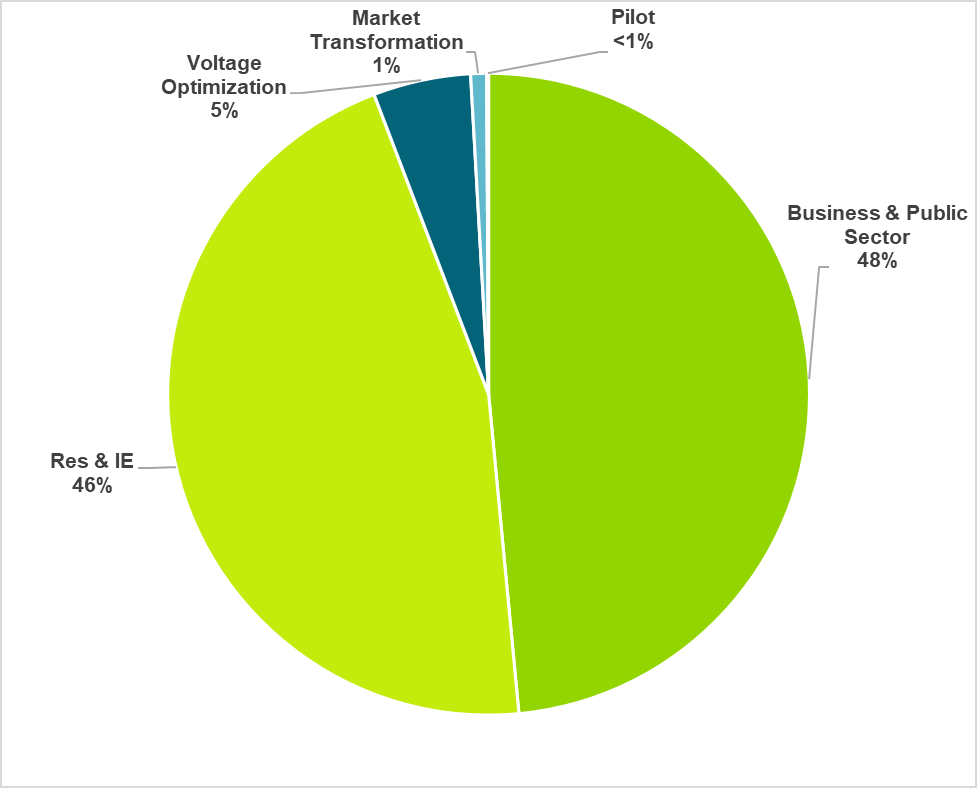
Table 2‑2: Total Annual Incremental Savings

| Savings Type | Portfolio | Ex Ante Gross Savings | Verified Gross Realization Rate | Verified Gross Savings | NTG\* | Verified Net Savings |
| --- | --- | --- | --- | --- | --- | --- |
| Energy (kWh) | Business & Public Sector | 734,972,109 | 1.01 | 745,166,656 | 0.91 | 680,731,026 |
| Energy (kWh) | Res & IE | 528,894,624 | 1.13 | 597,885,720 | 1.08 | 644,904,058 |
| Energy (kWh) | Pilot | 1,757,831 | 0.95 | 1,678,558 | 0.80 | 1,342,847 |
| Energy (kWh) | Market Transformation | 3,460,734 | 3.25 | 11,243,046 | 1.00 | 11,243,046 |
| Energy (kWh) | Voltage Optimization | 68,604,187 | 1.01 | 68,991,654 | 1.00 | 68,991,654 |
| Energy (kWh) | Total | 1,337,689,485 | 1.07 | 1,424,965,634 | 0.99 | 1,407,212,630 |
| Peak Demand (kW) | Business & Public Sector | 121,456 | 1.06 | 128,992 | 0.92 | 118,401 |
| Peak Demand (kW) | Res & IE | 140,710 | 0.51 | 71,932 | 1.14 | 81,729 |
| Peak Demand (kW) | Pilot | 7 | 0.16 | 1 | 0.80 | 1 |
| Peak Demand (kW) | Market Transformation | 0 |  | 1,434 | 1.00 | 1,434 |
| Peak Demand (kW) | Voltage Optimization | 12,366 | 1.01 | 12,456 | 1.00 | 12,456 |
| Peak Demand (kW) | Total | 274,539 | 0.78 | 214,816 | 1.00 | 214,022 |

Note: The ASI kWh Savings are counted as spart of the IE/RES sector  
\* The NTG is calculated as the sum of net savings divided by the sum of verified gross savings after excluding measures that do not have verified gross estimates (e.g., some behavior programs).  
*Source: ComEd tracking data and evaluation team analysis.*

Figure 2-1 provides the percent net electric (kWh direct) savings by the sectors. Further detail on the savings by program are shown in subsequent sections.

Figure 2‑1. Annual Incremental Electric Savings by Sector



*Source: ComEd tracking data and evaluation team analysis.*

## Cumulative Persisting Annual Savings (CPAS)

Per Section 8-103B of the Illinois Public Utilities Act, ComEd’s energy efficiency goals are expressed in CPAS, which is the sum of the electric energy savings achieved in a given year from all measures installed in that year and in previous years, but no earlier than January 1, 2012, that are still operational and providing savings in that year. The CPAS savings are presented in tables at the end of this section.

### Other Fuel (Gas+Propane) Savings

The gas savings attributed to ComEd’s programs are only those not claimed by the Illinois gas utilities so that there is no double-counting.[[1]](#footnote-1) Some of the gas savings that ComEd can claim are from programs jointly implemented with the gas utilities, and some are from ComEd-only programs that produce gas savings along with electric savings. 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 (AATS) as defined in paragraph (7.5) of subsection (g) of this Section be met through savings of fuels other than electricity.” For CY2023, ComEd’s savings target (AATS) is 1,546,850 MWh[[2]](#footnote-2) (Table 2-1 row X) and so ComEd can claim up to 154,685 MWh in other fuel savings (Table 2-1 row M).[[3]](#footnote-3)

The Clean Energy Jobs Act (CEJA) specifies that ComEd shall prioritize other fuels (which in CY2023 are from natural gas and propane) for the Income Eligible population first to the extent practicable, but can use other fuels from other sectors to achieve its target. To calculate the other fuels’ savings eligible for claiming, the evaluation team used a data set containing all measure-level savings, with associated sector and program flags. We sorted the measures from the Income Eligible programs to the top, then sorted by descending measure life. We calculated cumulative savings from the top of the data set until the cumulative total reached the maximum ComEd can claim. Only those savings above that point are included in the tables at the end of this section.

### Electrification Savings (Fuel Switching)

CEJA authorizes claimed savings from measures that electrify space heating, water heating, cooling, drying, cooking, industrial processes, and other building and industrial end uses that would otherwise be served by combustion of fossil fuel at the premises, provided that the electrification measures reduce total consumption on the premises. In CY2023, the key electrification measures included a family of heat pumps, heat pump water heaters, clothes dryer, induction cooktop, and fork trucks. 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.” For CY2023, ComEd’s savings target (AATS) is 1,564,850 MWh[[4]](#footnote-4) (Table 2-1 row X) and so ComEd can claim up to 77,343 MWh in energy efficient electrification savings.

To calculate the EE electrification savings eligible for claiming, the evaluation team used a data set containing all measure-level electrification savings, with associated sector and program flags. We sorted the measures from the Income Eligible programs to the top, then sorted by descending measure life. We calculated cumulative electrification savings from the top of the data set until the cumulative total reached the maximum ComEd can claim, with at least 25% of savings coming from electrification of end uses in income eligible housing. Only those savings above that point are included in the tables at the end of this section.

### Legacy Savings

CEJA specifies legacy savings, which are CPAS from energy efficiency measures implemented by ComEd from January 1, 2012 to December 31, 2017, that are still providing savings in the applicable year. The evaluation applied the deemed legacy savings of 2,573,016 MWh toward ComEd verified CPAS in CY2023 (Table 2-1 row J).[[5]](#footnote-5)

### Historical Savings

CEJA requires that historical savings be included in CPAS. This means that the CPAS tables shown in this report include savings from measures installed in 2018 through 2022 that have not reached the end of their EUL. It also means that the CPAS tables account for expiring savings. The evaluation applied the historical contribution to CPAS of 7,867,930 MWh (electric 7,303,100 MWh, counted gas converted of 552,424 MWh, and electrification 12,406 MWh) toward ComEd verified total CPAS in CY2023 (Table 2-1 row Q).

### Expiring Savings

CEJA specifies that each year ComEd’s programs must replace energy savings for measures that have reached the end of their measure lives before any progress towards achievement of its applicable annual incremental goal (AAIG) may be counted. The evaluation calculated incremental expiring savings using the following equation.

Equation 2‑1. Incremental Expiring Savings

Incremental Expiring Savings = CPAS Y\_{n-1}-CPAS Y\_n

The grand total incremental expiring savings in CY2023 is estimated as CY2023 incremental expiring savings plus the legacy incremental expiring savings in CY2023 and historical expiring savings since CY2018, given a value of 576,307 MWh (in CY2023, there were no incremental expiring savings, but from legacy incremental expiring savings of 360,981 MWh (Table 2-1 row T), and historical incremental expiring savings[[6]](#footnote-6) of 215,326 MWh (Table 2-1 row S)).

### Total Savings

As shown in the tables below, ComEd’s CY2023 energy efficiency programs achieved total electric CPAS of 1,407,213 MWh (Table 2-1 row E). They achieved 15,614,400 therms savings from other fuels, which converts to 457,658 MWh.[[7]](#footnote-7) From those other fuel savings, ComEd can claim 154,685 MWh (Table 2-1 row M) toward their annual incremental goal. In CY2023, income eligible programs achieved 186,227 MWh of savings from other fuels. Per CEJA, we prioritized income eligible measures with higher measure life until we reached the 154,685 MWh counted towards ComEd incremental goal.

ComEd achieved 39,998 MWh from EE electrification (EEE) measures (Table 2-1 row N). Of that, 6,129 MWh came from income eligible households, which was 15.3% of the total. The legislation states that 25% of the EEE savings ComEd can claim toward their goal must come from income eligible households. Given that, ComEd cannot claim the full amount. The evaluation has calculated that 24,515 MWh from the 39,998 MWh total can be counted towards ComEd’s goal (Table 2-1 row O).[[8]](#footnote-8)

Adding the current year electric savings to the allowable converted other fuel savings and electrification savings gives 1,586,413 MWh total savings (Table 2-1 row P). Adding the legacy savings of 2,573,016 MWh and historical savings since CY2018, the grand total CY2023 CPAS that ComEd can claim is 12,027,360 MWh (Table 2-1 row R) (which is 100.6% of the CPAS goal of 11,952,076 MWh).

### Applicable Annual Incremental Goal (AAIG)

From the legislation,[[9]](#footnote-9) the AAIG is estimated as the difference between the statutory CPAS goal for current year (CY2023) and the CPAS goal for the immediately preceding year (CY2022). We calculate progress toward AAIG that ComEd achieved in CY2023 as the difference in verified CY2022 CPAS and the incremental expiring savings (both expiring legacy savings and post 2017 expiring programmatic savings).

Equation 2‑2. Applicable Annual Incremental Goal (AAIG)

AAIG = CPAS Y\_n Goal - CPAS Y\_{n-1} Goal

Equation 2‑3. Applicable Annual Incremental Goal Achieved

Progress toward AAIG = CPAS Y\_n - Incremental Expiring Savings Y\_n

In CY2023, the AAIG is estimated as 970,543 MWh (Table 2-1 row W). The estimated progress toward goal that ComEd achieved is 1,010,106 MWh (row Y), which is the difference between the CPAS that ComEd can claim against their goal (rounded 1,586,413 MWh) and the grand total incremental expiring savings (576,307 MWh). The AAIG achieved as percent of goal (970,543 MWh) is 104.1% (Table 2-1 row Z).

### Applicable Annual Total Savings (AATS)

From the legislation, the AATS is estimated as the total amount of new annual savings that the utility must achieve in any given year to achieve the AAIG. This is equal to the AAIG plus the total new annual savings that are required to replace savings that expired in or at the end of the previous year (expiring legacy savings and expiring historic savings). For CY2023, ComEd’s savings target (AATS) is 1,546,850 MWh (Table 2-1 row X).

Equation 2‑4. Applicable Annual Incremental Goal (AATS)

AATS = AAIG + Legacy Expiring Savings + Historic Expiring Savings

Table 2‑3: CPAS by Program – Electric Direct

|  | | | | | | CPAS Verified Net kWh Savings | | | |  | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sector | Program | WAML\* | CY2023 Verified Gross Savings (kWh) | NTG† | Lifetime Net Savings (kWh)‡ | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Business & Public Sector | Small Business | 13 | 233,649,049 | 1 | 3,123,803,369 | 0 | 0 | 0 | 0 | 0 | 227,894,346 | 227,861,072 | 232,006,085 | 251,076,865 |
| Business & Public Sector | Incentives | 14 | 210,902,058 | 1 | 2,698,795,163 | 0 | 0 | 0 | 0 | 0 | 194,124,374 | 194,124,374 | 193,489,706 | 192,581,919 |
| Business & Public Sector | Midstream/Upstream | 13 | 141,750,009 | 1 | 1,566,918,012 | 0 | 0 | 0 | 0 | 0 | 122,085,232 | 122,085,232 | 115,799,317 | 115,799,317 |
| Business & Public Sector | Targeted Systems | 8 | 93,229,625 | 1 | 610,938,843 | 0 | 0 | 0 | 0 | 0 | 80,090,795 | 80,090,795 | 80,090,795 | 58,287,944 |
| Business & Public Sector | Behavior Bus/Pub | 7 | 42,520,929 | 1 | 297,646,503 | 0 | 0 | 0 | 0 | 0 | 42,520,929 | 42,520,929 | 42,520,929 | 42,520,929 |
| Business & Public Sector | New Construction - Bus/Pub | 17 | 20,659,503 | 1 | 203,680,366 | 0 | 0 | 0 | 0 | 0 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 |
| Business & Public Sector | Assessments | 4 | 2,455,483 | 1 | 8,316,215 | 0 | 0 | 0 | 0 | 0 | 2,309,581 | 2,309,581 | 1,623,600 | 1,160,538 |
| Res & IE | Product Distribution | 9 | 298,789,722 | 1 | 2,415,609,366 | 0 | 0 | 0 | 0 | 0 | 298,581,053 | 298,581,053 | 296,210,481 | 296,210,481 |
| Res & IE | Retail/Online | 11 | 236,471,174 | 1 | 2,145,742,517 | 0 | 0 | 0 | 0 | 0 | 204,637,870 | 204,637,489 | 194,837,701 | 194,837,701 |
| Res & IE | Multifamily Upgrades | 13 | 33,203,428 | 1 | 423,890,933 | 0 | 0 | 0 | 0 | 0 | 32,854,354 | 32,801,471 | 32,139,157 | 32,112,495 |
| Res & IE | Contractor / Midstream Rebates | 16 | 15,960,640 | 1 | 171,331,318 | 0 | 0 | 0 | 0 | 0 | 13,059,222 | 13,059,222 | 13,059,222 | 13,027,379 |
| Res & IE | Single-Family Upgrades | 12 | 11,113,511 | 1 | 115,118,698 | 0 | 0 | 0 | 0 | 0 | 11,042,996 | 11,042,996 | 11,042,996 | 10,891,397 |
| Res & IE | New Construction - IE | 16 | 1,102,724 | 1 | 17,520,340 | 0 | 0 | 0 | 0 | 0 | 1,102,724 | 1,102,724 | 1,102,724 | 1,102,724 |
| Res & IE | ASI kWh | 20 | 877,947 | 1 | 15,115,464 | 0 | 0 | 0 | 0 | 0 | 791,055 | 791,055 | 791,055 | 791,055 |
| Res & IE | New Construction - Pilot | 13 | 366,574 | 1 | 4,401,582 | 0 | 0 | 0 | 0 | 0 | 328,978 | 328,978 | 308,193 | 308,193 |
| Res & IE | Behavior - Res/IE | 10 | 0 |  | 292,207,810 | 0 | 0 | 0 | 0 | 0 | 82,505,806 | 60,133,944 | 43,949,562 | 31,650,464 |
| Pilot | Industrial Energy Management Information Systems | 5 | 1,653,013 | 1 | 6,612,052 | 0 | 0 | 0 | 0 | 0 | 1,322,410 | 1,322,410 | 1,322,410 | 1,322,410 |
| Pilot | Heat Pump Water Heater Pilot | 15 | 25,545 | 1 | 306,544 | 0 | 0 | 0 | 0 | 0 | 20,436 | 20,436 | 20,436 | 20,436 |
| Market Transformation | ENERGY STAR Retail Products Platform | 14 | 11,243,046 | 1 | 158,346,481 | 0 | 0 | 0 | 0 | 0 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 |
| Voltage Optimization | Voltage Optimization | 15 | 68,991,654 | 1 | 1,034,874,812 | 0 | 0 | 0 | 0 | 0 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 |
| **CY2023 Portfolio Total Electric Contribution to CPAS** |  | **12** | **1,424,965,634** | **1** | **15,311,176,388** | **0** | **0** | **0** | **0** | **0** | **1,407,212,630** | **1,384,754,230** | **1,352,254,836** | **1,335,642,715** |
| **Historic Portfolio Total Electric Contribution to CPAS§** |  |  |  |  |  | **1,765,460,187** | **3,230,285,186** | **4,840,365,070** | **6,105,105,588** | **7,517,032,298** | **7,303,100,045** | **6,825,438,867** | **6,396,196,860** | **5,993,007,134** |
| **Portfolio Total Electric CPAS** |  |  |  |  |  | **1,765,460,187** | **3,230,285,186** | **4,840,365,070** | **6,105,105,588** | **7,517,032,298** | **8,710,312,675** | **8,210,193,097** | **7,748,451,696** | **7,328,649,849** |
| **CY2023 Portfolio Incremental Expiring Electric Savings||** |  |  |  |  |  | **0** | **0** | **0** | **0** | **0** | **0** | **22,458,400** | **32,499,394** | **16,612,121** |
| **Historic Portfolio Incremental Expiring Electric Savings#** |  |  |  |  |  | **0** | **0** | **0** | **0** | **154,012,907** | **213,932,253** | **477,661,178** | **429,242,007** | **403,189,726** |
| **Portfolio Grand Total Incremental Expiring Electric Savings\*†** |  |  |  |  |  | **0** | **0** | **0** | **0** | **154,012,907** | **213,932,253** | **500,119,578** | **461,741,401** | **419,801,847** |

| Sector | Program | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 247,187,095 | 241,050,312 | 240,402,818 | 239,604,932 | 237,377,532 | 229,323,088 | 210,845,910 | 166,328,411 | 139,128,223 | 123,262,938 | 110,445,014 | 873 |
| Business & Public Sector | Incentives | 192,183,207 | 190,940,383 | 187,166,641 | 184,334,637 | 183,455,092 | 182,921,337 | 170,155,732 | 139,737,274 | 123,607,660 | 114,467,977 | 111,618,161 | 21,965,291 |
| Business & Public Sector | Midstream/Upstream | 111,209,102 | 107,002,847 | 107,002,847 | 107,002,847 | 107,002,847 | 106,985,737 | 101,990,010 | 92,991,451 | 87,889,362 | 87,889,362 | 73,946,371 | 53,059 |
| Business & Public Sector | Targeted Systems | 57,500,997 | 57,500,997 | 57,500,997 | 40,346,550 | 25,839,793 | 15,107,517 | 15,091,263 | 15,091,263 | 15,091,263 | 3,578,104 | 3,578,104 | 768,958 |
| Business & Public Sector | Behavior Bus/Pub | 42,520,929 | 42,520,929 | 42,520,929 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | New Construction - Bus/Pub | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 |
| Business & Public Sector | Assessments | 912,916 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Product Distribution | 272,017,595 | 272,017,595 | 272,017,595 | 261,784,461 | 15,572,575 | 15,572,575 | 11,704,390 | 11,704,390 | 11,704,390 | 11,704,390 | 11,704,390 | 11,704,390 |
| Res & IE | Retail/Online | 182,209,005 | 181,939,529 | 180,407,551 | 157,250,951 | 79,732,536 | 72,129,912 | 61,758,644 | 52,422,725 | 49,329,556 | 49,324,634 | 47,859,226 | 46,771,170 |
| Res & IE | Multifamily Upgrades | 32,097,409 | 29,131,614 | 23,795,837 | 22,907,278 | 21,795,431 | 21,665,304 | 21,044,591 | 19,940,949 | 18,860,900 | 18,857,589 | 18,851,780 | 9,432,441 |
| Res & IE | Contractor / Midstream Rebates | 13,027,379 | 13,027,379 | 9,724,613 | 9,612,527 | 9,513,129 | 9,513,129 | 9,512,788 | 9,090,476 | 9,090,476 | 9,090,476 | 9,090,476 | 7,128,434 |
| Res & IE | Single-Family Upgrades | 10,834,310 | 10,733,207 | 10,578,860 | 9,565,041 | 4,071,554 | 4,069,380 | 2,981,497 | 2,248,951 | 2,238,931 | 2,235,837 | 2,236,744 | 2,143,050 |
| Res & IE | New Construction - IE | 1,102,724 | 1,102,724 | 1,102,724 | 1,102,724 | 1,102,724 | 1,098,219 | 1,089,997 | 1,057,469 | 1,055,617 | 1,050,444 | 857,532 | 286,698 |
| Res & IE | ASI kWh | 791,055 | 791,055 | 791,055 | 791,055 | 791,055 | 791,055 | 720,492 | 720,492 | 720,492 | 720,492 | 720,492 | 720,492 |
| Res & IE | New Construction - Pilot | 308,193 | 308,193 | 308,193 | 308,193 | 308,193 | 308,193 | 235,018 | 189,868 | 189,868 | 174,393 | 168,809 | 101,682 |
| Res & IE | Behavior - Res/IE | 23,291,538 | 17,067,278 | 12,656,637 | 9,262,763 | 6,737,921 | 4,951,895 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Industrial Energy Management Information Systems | 1,322,410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Heat Pump Water Heater Pilot | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 0 |
| Market Transformation | ENERGY STAR Retail Products Platform | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 943,844 | 0 |
| Voltage Optimization | Voltage Optimization | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 0 |
| **CY2023 Portfolio Total Electric Contribution to CPAS** |  | **1,280,476,769** | **1,257,094,943** | **1,237,938,201** | **1,135,834,863** | **785,261,286** | **756,398,244** | **699,091,236** | **603,484,623** | **550,867,641** | **514,317,540** | **472,738,800** | **112,782,306** |
| **Historic Portfolio Total Electric Contribution to CPAS§** |  | **5,690,100,784** | **5,111,782,419** | **4,709,828,826** | **4,105,275,854** | **3,518,360,090** | **2,923,946,720** | **2,440,679,767** | **1,875,009,291** | **1,306,762,404** | **682,632,733** | **224,307,189** | **181,410,735** |
| **Portfolio Total Electric CPAS** |  | **6,970,577,552** | **6,368,877,362** | **5,947,767,026** | **5,241,110,717** | **4,303,621,377** | **3,680,344,964** | **3,139,771,003** | **2,478,493,914** | **1,857,630,045** | **1,196,950,273** | **697,045,989** | **294,193,041** |
| **CY2023 Portfolio Incremental Expiring Electric Savings||** |  | **55,165,946** | **23,381,826** | **19,156,742** | **102,103,337** | **350,573,577** | **28,863,042** | **57,307,008** | **95,606,613** | **52,616,982** | **36,550,101** | **41,578,740** | **359,956,494** |
| **Historic Portfolio Incremental Expiring Electric Savings#** |  | **302,906,350** | **578,318,364** | **401,953,594** | **604,552,972** | **586,915,763** | **594,413,371** | **483,266,953** | **565,670,475** | **568,246,887** | **624,129,671** | **458,325,544** | **42,896,454** |
| **Portfolio Grand Total Incremental Expiring Electric Savings\*†** |  | **358,072,297** | **601,700,190** | **421,110,335** | **706,656,309** | **937,489,340** | **623,276,413** | **540,573,961** | **661,277,088** | **620,863,869** | **660,679,772** | **499,904,285** | **402,852,947** |

| Sector | Program | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 873 | 873 | 873 | 873 | 873 | 873 | 873 | 873 | 873 | 0 | 0 | 0 |
| Business & Public Sector | Incentives | 21,958,253 | 21,696,049 | 20,945,742 | 20,945,742 | 12,660,365 | 11,406,801 | 11,406,801 | 585,988 | 315,657 | 0 | 0 | 0 |
| Business & Public Sector | Midstream/Upstream | 53,059 | 53,059 | 53,059 | 23,897 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Targeted Systems | 768,958 | 768,958 | 768,958 | 768,958 | 768,958 | 768,958 | 768,958 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Behavior Bus/Pub | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | New Construction - Bus/Pub | 11,705,768 | 4,682,307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Assessments | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Product Distribution | 11,704,390 | 11,704,390 | 11,704,390 | 11,704,390 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Retail/Online | 46,550,342 | 46,550,342 | 46,549,345 | 46,006,288 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Multifamily Upgrades | 8,882,855 | 8,881,754 | 8,881,754 | 8,881,754 | 24,739 | 24,739 | 24,739 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Contractor / Midstream Rebates | 577,926 | 577,926 | 89,677 | 89,677 | 73,956 | 73,956 | 73,956 | 73,956 | 73,956 | 0 | 0 | 0 |
| Res & IE | Single-Family Upgrades | 1,951,799 | 1,951,799 | 1,806,268 | 1,450,827 | 255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | New Construction - IE | 279,343 | 279,343 | 279,343 | 261,823 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | ASI kWh | 720,492 | 720,492 | 720,492 | 720,492 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | New Construction - Pilot | 58,492 | 58,492 | 58,492 | 42,969 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Behavior - Res/IE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Industrial Energy Management Information Systems | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Heat Pump Water Heater Pilot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market Transformation | ENERGY STAR Retail Products Platform | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Voltage Optimization | Voltage Optimization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CY2023 Portfolio Total Electric Contribution to CPAS** |  | **105,212,551** | **97,925,786** | **91,858,394** | **90,897,690** | **13,529,146** | **12,275,328** | **12,275,328** | **660,817** | **390,486** | **0** | **0** | **0** |
| **Historic Portfolio Total Electric Contribution to CPAS§** |  | **157,969,480** | **143,317,622** | **77,504,230** | **34,267,219** | **21,135,794** | **14,225,612** | **3,870,155** | **2,043,637** | **443,970** | **443,970** | **443,970** | **443,970** |
| **Portfolio Total Electric CPAS** |  | **263,182,031** | **241,243,408** | **169,362,624** | **125,164,910** | **34,664,940** | **26,500,940** | **16,145,483** | **2,704,455** | **834,456** | **443,970** | **443,970** | **443,970** |
| **CY2023 Portfolio Incremental Expiring Electric Savings||** |  | **7,569,756** | **7,286,765** | **6,067,392** | **960,703** | **77,368,544** | **1,253,818** | **0** | **11,614,510** | **270,331** | **390,486** | **0** | **0** |
| **Historic Portfolio Incremental Expiring Electric Savings#** |  | **23,441,255** | **14,651,858** | **65,813,392** | **43,237,011** | **13,131,425** | **6,910,182** | **10,355,457** | **1,826,518** | **1,599,667** | **0** | **0** | **0** |
| **Portfolio Grand Total Incremental Expiring Electric Savings\*†** |  | **31,011,011** | **21,938,623** | **71,880,784** | **44,197,714** | **90,499,970** | **8,164,000** | **10,355,457** | **13,441,028** | **1,869,998** | **390,486** | **0** | **0** |

Note: This table is Electric Energy Savings - Direct which 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, carryover savings, and electric heating penalties.

\* WAML is the weighted average measure life across all measures and savings in the program.  
† The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
‡ 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.  
\*† Portfolio total incremental expiring savings are equal to current year total incremental expiring savings plus historic total incremental expiring savings.  
*Source: Evaluation team analysis*

Table 2‑4: CPAS by Program – Other Fuel

|  | | | | | | | | | | | CPAS Verified Net Therms Savings | | | | | | | |  | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sector | | Program | | WAML | CY2023 Verified Gross Savings (Therms) | | NTG\* | | Lifetime Net Savings | | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | |
| Business & Public Sector | | Incentives | | 15 | 1,220,700 | | 1 | | 16,119,744 | | 0 | | 0 | | 0 | | 0 | | 0 | | 1,086,533 | | 1,086,533 | | 1,086,533 | | 1,086,533 | |
| Business & Public Sector | | Small Business | | 9 | 288,936 | | 1 | | 2,665,304 | | 0 | | 0 | | 0 | | 0 | | 0 | | 286,027 | | 286,027 | | 286,027 | | 286,027 | |
| Business & Public Sector | | Targeted Systems | | 10 | 69,343 | | 1 | | 580,294 | | 0 | | 0 | | 0 | | 0 | | 0 | | 66,224 | | 66,224 | | 66,224 | | 66,224 | |
| Business & Public Sector | | New Construction - Bus/Pub | | 17 | 10,961 | | 1 | | 99,247 | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | |
| Business & Public Sector | | Assessments | | 5 | 2,223 | | 1 | | 10,268 | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,090 | | 2,090 | | 2,090 | | 2,090 | |
| Business & Public Sector | | Behavior Bus/Pub | |  | 0 | |  | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Business & Public Sector | | Midstream/Upstream | |  | 0 | |  | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Res & IE | | Retail/Online | | 18 | 11,747,740 | | 1 | | 190,331,168 | | 0 | | 0 | | 0 | | 0 | | 0 | | 10,352,446 | | 10,352,446 | | 10,352,446 | | 10,352,446 | |
| Res & IE | | Single-Family Upgrades | | 18.1 | 2,558,464 | | 1.00 | | 41,729,018 | | 0 | | 0 | | 0 | | 0 | | 0 | | 2,549,822 | | 2,566,875 | | 2,566,875 | | 2,505,456 | |
| Res & IE | | Multifamily Upgrades | | 16 | 729,509 | | 1 | | 11,272,335 | | 0 | | 0 | | 0 | | 0 | | 0 | | 700,289 | | 700,289 | | 697,616 | | 672,786 | |
| Res & IE | | Product Distribution | | 16 | 356,734 | | 1 | | 5,627,590 | | 0 | | 0 | | 0 | | 0 | | 0 | | 356,734 | | 356,734 | | 338,329 | | 338,329 | |
| Res & IE | | Contractor / Midstream Rebates | | 11 | 111,744 | | 1 | | 1,166,257 | | 0 | | 0 | | 0 | | 0 | | 0 | | 101,518 | | 101,518 | | 101,518 | | 101,518 | |
| Res & IE | | New Construction - IE | | 17 | 36,728 | | 1 | | 615,316 | | 0 | | 0 | | 0 | | 0 | | 0 | | 36,728 | | 36,728 | | 36,728 | | 36,728 | |
| Res & IE | | Behavior - Res/IE | |  | 0 | |  | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Res & IE | | New Construction - Pilot | |  | 0 | |  | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Pilot | | Heat Pump Water Heater Pilot | | 15 | -22 | | 1 | | -258 | | 0 | | 0 | | 0 | | 0 | | 0 | | -17 | | -17 | | -17 | | -17 | |
| Market Transformation | | ENERGY STAR Retail Products Platform | | 14 | 70,301 | | 1 | | 984,220 | | 0 | | 0 | | 0 | | 0 | | 0 | | 70,301 | | 70,301 | | 70,301 | | 70,301 | |
| Voltage Optimization | | Voltage Optimization | |  | 0 | |  | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (Therms)** | |  | |  | **17,203,364** | | **0.90** | | **271,200,503** | | **0** | | **0** | | **0** | | **0** | | **0** | | **15,614,400** | | **15,631,453** | | **15,610,375** | | **15,524,126** | |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)‡** | |  | |  | **504,230,598** | | **0.90** | | **7,948,886,750** | | **0** | | **0** | | **0** | | **0** | | **0** | | **457,658,059** | | **458,157,894** | | **457,540,095** | | **455,012,135** | |
| **Historic Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)§** | |  | |  |  | |  | |  | | **216,877,650** | | **387,368,187** | | **664,862,938** | | **988,871,000** | | **1,280,616,071** | | **1,271,903,266** | | **1,261,976,247** | | **1,246,645,817** | | **1,238,289,821** | |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (Therms)** | |  | |  |  | |  | |  | | **216,877,650** | | **387,368,187** | | **664,862,938** | | **988,871,000** | | **1,280,616,071** | | **1,729,561,325** | | **1,720,134,141** | | **1,704,185,912** | | **1,693,301,956** | |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)||** | |  | |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **(17,053)** | | **21,078** | | **86,249** | |
| **Historic Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)#** | |  | |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **(499,835)** | | **617,799** | | **2,527,960** | |
| **Portfolio Total Other Fuel CPAS (kWh Equivalent)** | |  | |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **8,712,805** | | **9,927,019** | | **15,330,430** | | **8,355,996** | |
| **Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent)\*†** | |  | |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **8,712,805** | | **9,427,184** | | **15,948,229** | | **10,883,956** | |
|  | |  | |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Sector | | Program | | 2027 | | | 2028 | | 2029 | | 2030 | | 2031 | | 2032 | | 2033 | | 2034 | | 2035 | | 2036 | | 2037 | | 2038 | |
| Business & Public Sector | | Incentives | | 1,086,533 | | | 1,083,025 | | 1,083,025 | | 1,083,025 | | 1,083,025 | | 1,083,025 | | 1,058,128 | | 1,053,457 | | 1,053,457 | | 1,053,457 | | 1,053,457 | | 0 | |
| Business & Public Sector | | Small Business | | 286,027 | | | 239,537 | | 239,537 | | 239,537 | | 239,487 | | 232,388 | | 42,560 | | 152 | | 152 | | 152 | | 152 | | 152 | |
| Business & Public Sector | | Targeted Systems | | 58,933 | | | 58,933 | | 58,933 | | 58,933 | | 39,387 | | 10,069 | | 10,069 | | 10,069 | | 10,069 | | 0 | | 0 | | 0 | |
| Business & Public Sector | | New Construction - Bus/Pub | | 5,704 | | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | | 5,704 | |
| Business & Public Sector | | Assessments | | 1,908 | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Business & Public Sector | | Behavior Bus/Pub | | 0 | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Business & Public Sector | | Midstream/Upstream | | 0 | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Res & IE | | Retail/Online | | 10,352,446 | | | 10,352,446 | | 10,352,446 | | 10,352,446 | | 10,352,446 | | 10,352,446 | | 10,013,400 | | 8,559,802 | | 8,559,802 | | 8,556,188 | | 8,519,592 | | 8,519,741 | |
| Res & IE | | Single-Family Upgrades | | 2,504,957 | | | 2,440,253 | | 2,399,770 | | 2,399,770 | | 2,398,004 | | 2,396,846 | | 2,085,306 | | 1,789,209 | | 1,762,514 | | 1,729,431 | | 1,728,607 | | 1,688,509 | |
| Res & IE | | Multifamily Upgrades | | 672,786 | | | 671,725 | | 615,565 | | 615,565 | | 615,565 | | 615,565 | | 605,308 | | 551,462 | | 551,462 | | 551,093 | | 551,093 | | 358,538 | |
| Res & IE | | Product Distribution | | 338,329 | | | 338,329 | | 338,329 | | 338,329 | | 338,329 | | 338,329 | | 220,749 | | 220,749 | | 220,749 | | 220,749 | | 220,749 | | 220,749 | |
| Res & IE | | Contractor / Midstream Rebates | | 101,518 | | | 101,518 | | 101,518 | | 101,518 | | 101,518 | | 101,518 | | 101,518 | | 5,506 | | 5,506 | | 5,506 | | 5,506 | | 5,506 | |
| Res & IE | | New Construction - IE | | 36,728 | | | 36,728 | | 36,728 | | 36,728 | | 36,728 | | 36,728 | | 31,644 | | 25,809 | | 25,809 | | 25,809 | | 25,068 | | 21,984 | |
| Res & IE | | Behavior - Res/IE | | 0 | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Res & IE | | New Construction - Pilot | | 0 | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| Pilot | | Heat Pump Water Heater Pilot | | -17 | | | -17 | | -17 | | -17 | | -17 | | -17 | | -17 | | -17 | | -17 | | -17 | | -17 | | 0 | |
| Market Transformation | | ENERGY STAR Retail Products Platform | | 70,301 | | | 70,301 | | 70,301 | | 70,301 | | 70,301 | | 70,301 | | 70,301 | | 70,301 | | 70,301 | | 70,301 | | 0 | | 0 | |
| Voltage Optimization | | Voltage Optimization | | 0 | | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (Therms)** | |  | | **15,516,154** | | | **15,398,482** | | **15,301,840** | | **15,301,840** | | **15,280,477** | | **15,242,902** | | **14,244,670** | | **12,292,202** | | **12,265,507** | | **12,218,371** | | **12,109,909** | | **10,820,883** | |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)‡** | |  | | **454,778,468** | | | **451,329,513** | | **448,496,923** | | **448,496,923** | | **447,870,794** | | **446,769,448** | | **417,511,291** | | **360,284,448** | | **359,502,021** | | **358,120,459** | | **354,941,420** | | **317,160,068** | |
| **Historic Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)§** | |  | | **1,230,888,455** | | | **1,138,573,086** | | **1,103,651,799** | | **947,618,793** | | **813,807,358** | | **600,686,837** | | **424,780,996** | | **398,573,013** | | **272,059,601** | | **200,499,985** | | **149,379,526** | | **142,860,919** | |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (Therms)** | |  | | **1,685,666,923** | | | **1,589,902,599** | | **1,552,148,722** | | **1,396,115,716** | | **1,261,678,152** | | **1,047,456,285** | | **842,292,287** | | **758,857,461** | | **631,561,622** | | **558,620,444** | | **504,320,946** | | **460,020,987** | |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)||** | |  | | **7,972** | | | **117,672** | | **96,642** | | **0** | | **21,362** | | **37,576** | | **998,231** | | **1,952,468** | | **26,695** | | **47,136** | | **108,463** | | **1,289,026** | |
| **Historic Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)#** | |  | | **233,667** | | | **3,448,955** | | **2,832,590** | | **0** | | **626,129** | | **1,101,346** | | **29,258,157** | | **57,226,842** | | **782,427** | | **1,381,562** | | **3,179,039** | | **37,781,352** | |
| **Portfolio Total Other Fuel CPAS (kWh Equivalent)** | |  | | **7,401,366** | | | **92,315,369** | | **34,921,287** | | **156,033,006** | | **133,811,435** | | **213,120,521** | | **175,905,841** | | **26,207,983** | | **126,513,412** | | **71,559,616** | | **51,120,459** | | **6,518,607** | |
| **Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent)\*†** | |  | | **7,635,033** | | | **95,764,324** | | **37,753,877** | | **156,033,006** | | **134,437,564** | | **214,221,867** | | **205,163,998** | | **83,434,825** | | **127,295,839** | | **72,941,178** | | **54,299,498** | | **44,299,959** | |

| Sector | Program | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Incentives | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Small Business | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 0 | 0 | 0 |
| Business & Public Sector | Targeted Systems | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | New Construction - Bus/Pub | 5,704 | 2,282 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Assessments | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Behavior Bus/Pub | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Midstream/Upstream | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Retail/Online | 8,519,547 | 8,519,547 | 8,519,547 | 8,519,547 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Single-Family Upgrades | 1,547,554 | 1,547,554 | 1,547,554 | 1,547,554 | 5,319 | 5,319 | 5,319 | 5,319 | 5,319 | 0 | 0 | 0 |
| Res & IE | Multifamily Upgrades | 341,990 | 341,990 | 341,990 | 341,990 | 31,534 | 31,534 | 31,534 | 31,534 | 31,534 | 0 | 0 | 0 |
| Res & IE | Product Distribution | 220,749 | 220,749 | 220,749 | 220,749 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Contractor / Midstream Rebates | 5,506 | 5,506 | 5,506 | 5,506 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | New Construction - IE | 21,984 | 21,984 | 21,984 | 21,984 | 3,977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Behavior - Res/IE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | New Construction - Pilot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Heat Pump Water Heater Pilot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market Transformation | ENERGY STAR Retail Products Platform | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Voltage Optimization | Voltage Optimization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (Therms)** |  | **10,663,186** | **10,659,763** | **10,657,482** | **10,657,482** | **40,981** | **37,005** | **37,005** | **37,005** | **37,005** | **0** | **0** | **0** |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)‡** |  | **312,537,973** | **312,437,665** | **312,370,793** | **312,370,793** | **1,201,157** | **1,084,602** | **1,084,602** | **1,084,602** | **1,084,602** | **0** | **0** | **0** |
| **Historic Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)§** |  | **128,948,812** | **118,480,252** | **80,248,155** | **16,830,180** | **10,414,490** | **7,403,955** | **4,489,652** | **205,045** | **0** | **0** | **0** | **0** |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (Therms)** |  | **441,486,785** | **430,917,917** | **392,618,948** | **329,200,973** | **11,615,647** | **8,488,557** | **5,574,254** | **1,289,647** | **1,084,602** | **0** | **0** | **0** |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)||** |  | **157,697** | **3,422** | **2,282** | **0** | **10,616,501** | **3,977** | **0** | **0** | **0** | **37,005** | **0** | **0** |
| **Historic Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)#** |  | **4,622,095** | **100,308** | **66,872** | **0** | **311,169,636** | **116,554** | **0** | **0** | **0** | **1,084,602** | **0** | **0** |
| **Portfolio Total Other Fuel CPAS (kWh Equivalent)** |  | **13,912,107** | **10,468,560** | **38,232,097** | **63,417,975** | **6,415,690** | **3,010,535** | **2,914,303** | **4,284,607** | **205,045** | **0** | **0** | **0** |
| **Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent)\*†** |  | **18,534,202** | **10,568,868** | **38,298,969** | **63,417,975** | **317,585,326** | **3,127,089** | **2,914,303** | **4,284,607** | **205,045** | **1,084,602** | **0** | **0** |

\* The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
† Lifetime savings are the sum of CPAS savings through the EUL.  
‡ kWh equivalent savings are calculated by multiplying therm savings by 29.31.  
§ Historic 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.  
\*† kWh equivalent portfolio total incremental savings are calculated by multiplying therm savings by 29.31.

*Source: Evaluation team analysis*

Table 2‑5: CPAS from Other Fuel Counting Toward ComEd Goal

|  | | | | | | | | | | | CPAS Verified Net Therms Savings | | | | | | | |  | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sector | CY2023 Verified Gross Savings (Therms) | | Lifetime Net Savings\* | | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | | |
| Income Eligible Other Fuel (Therms) | 5,300,181 | | 99,602,732 | | 0 | | 0 | | 0 | | 0 | | 0 | | 5,277,551 | | 5,286,058 | | 5,286,058 | | 5,286,058 | | |
| Income Eligible Other Fuel (kWh Equivalent)† | 155,348,297 | | 2,919,356,085 | | 0 | | 0 | | 0 | | 0 | | 0 | | 154,685,034 | | 154,934,355 | | 154,934,355 | | 154,934,355 | | |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (Therms)** | **5,300,181** | | **99,602,732** | | **0** | | **0** | | **0** | | **0** | | **0** | | **5,277,551** | | **5,286,058** | | **5,286,058** | | **5,286,058** | | |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)** | **155,348,297** | | **2,919,356,085** | | **0** | | **0** | | **0** | | **0** | | **0** | | **154,685,034** | | **154,934,355** | | **154,934,355** | | **154,934,355** | | |
| **Historic Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent Counted)‡** |  | |  | | **94,320,888** | | **196,501,850** | | **298,671,854** | | **408,567,718** | | **553,817,801** | | **552,424,034** | | **545,834,549** | | **534,948,763** | | **534,462,723** | | |
| **Portfolio Total Other Fuel CPAS (kWh Equivalent)§** |  | |  | | **94,320,888** | | **196,501,850** | | **298,671,854** | | **408,567,718** | | **553,817,801** | | **707,109,068** | | **700,768,904** | | **689,883,118** | | **689,397,078** | | |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (Therms)** | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **-8,506** | | **0** | | **0** | | |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)||** | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **-249,322** | | **0** | | **0** | | |
| **Historic Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent Counted)** |  | |  | | **0** | | **0** | | **0** | | **0** | | **146,091** | | **519,109** | | **3,579,608** | | **7,392,427** | | **488,414** | | |
| **Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent)#** |  | |  | | **0** | | **0** | | **0** | | **0** | | **146,091** | | **519,109** | | **3,330,286** | | **7,392,427** | | **488,414** | | |
|  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |
| Sector | 2027 | 2028 | | 2029 | | 2030 | | 2031 | | 2032 | | 2033 | | 2034 | | 2035 | | 2036 | | 2037 | | 2038 |
| Income Eligible Other Fuel Gas (Therms) | 5,286,058 | 5,242,639 | | 5,202,157 | | 5,202,157 | | 5,200,390 | | 5,199,232 | | 4,940,335 | | 4,903,832 | | 4,877,140 | | 4,846,142 | | 4,846,142 | | 4,625,888 |
| Income Eligible Other Fuel Gas (kWh Equivalent)† | 154,934,355 | 153,661,757 | | 152,475,219 | | 152,475,219 | | 152,423,439 | | 152,389,493 | | 144,801,232 | | 143,731,330 | | 142,948,987 | | 142,040,434 | | 142,040,434 | | 135,584,776 |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (Therms)** | **5,286,058** | **5,242,639** | | **5,202,157** | | **5,202,157** | | **5,200,390** | | **5,199,232** | | **4,940,335** | | **4,903,832** | | **4,877,140** | | **4,846,142** | | **4,846,142** | | **4,625,888** |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)** | **154,934,355** | **153,661,757** | | **152,475,219** | | **152,475,219** | | **152,423,439** | | **152,389,493** | | **144,801,232** | | **143,731,330** | | **142,948,987** | | **142,040,434** | | **142,040,434** | | **135,584,776** |
| **Historic Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent Counted)‡** | **531,006,187** | **507,986,347** | | **491,448,372** | | **436,523,272** | | **417,800,645** | | **397,137,524** | | **293,905,493** | | **270,207,140** | | **199,789,089** | | **152,144,512** | | **141,101,914** | | **135,477,125** |
| **Portfolio Total Other Fuel CPAS (kWh Equivalent)§** | **685,940,542** | **661,648,104** | | **643,923,591** | | **588,998,491** | | **570,224,084** | | **549,527,017** | | **438,706,725** | | **413,938,470** | | **342,738,076** | | **294,184,946** | | **283,142,348** | | **271,061,901** |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (Therms)** | **0** | **43,419** | | **40,482** | | **0** | | **1,767** | | **1,158** | | **258,897** | | **36,503** | | **26,692** | | **30,998** | | **0** | | **220,254** |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)||** | **0** | **1,272,599** | | **1,186,538** | | **0** | | **51,780** | | **33,946** | | **7,588,262** | | **1,069,902** | | **782,343** | | **908,553** | | **0** | | **6,455,659** |
| **Historic Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent Counted)** | **2,396,794** | **13,944,822** | | **16,543,226** | | **54,830,949** | | **18,272,508** | | **3,760,456** | | **62,747,883** | | **21,195,470** | | **69,256,379** | | **47,639,575** | | **1,550,961** | | **5,227,415** |
| **Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent)#** | **2,396,794** | **15,217,421** | | **17,729,764** | | **54,830,949** | | **18,324,288** | | **3,794,402** | | **70,336,144** | | **22,265,372** | | **70,038,722** | | **48,548,128** | | **1,550,961** | | **11,683,073** |
|  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sector | 2039 | 2040 | | 2041 | | 2042 | | 2043 | | 2044 | | 2045 | | 2046 | | 2047 | | 2048 | | 2049 | | 2050 |
| Income Eligible Other Fuel Gas (Therms) | 4,476,663 | 4,476,663 | | 4,476,663 | | 4,476,663 | | 40,830 | | 36,853 | | 36,853 | | 36,853 | | 36,853 | | 0 | | 0 | | 0 |
| Income Eligible Other Fuel Gas (kWh Equivalent)† | 131,210,993 | 131,210,993 | | 131,210,993 | | 131,210,993 | | 1,196,713 | | 1,080,159 | | 1,080,159 | | 1,080,159 | | 1,080,159 | | 0 | | 0 | | 0 |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (Therms)** | **4,476,663** | **4,476,663** | | **4,476,663** | | **4,476,663** | | **40,830** | | **36,853** | | **36,853** | | **36,853** | | **36,853** | | **0** | | **0** | | **0** |
| **CY2023 Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent)** | **131,210,993** | **131,210,993** | | **131,210,993** | | **131,210,993** | | **1,196,713** | | **1,080,159** | | **1,080,159** | | **1,080,159** | | **1,080,159** | | **0** | | **0** | | **0** |
| **Historic Portfolio Total Other Fuel Contribution to CPAS (kWh Equivalent Counted)‡** | **121,635,775** | **111,214,385** | | **72,982,288** | | **16,830,180** | | **10,414,490** | | **7,403,954** | | **4,489,652** | | **205,045** | | **0** | | **0** | | **0** | | **0** |
| **Portfolio Total Other Fuel CPAS (kWh Equivalent)§** | **252,846,768** | **242,425,378** | | **204,193,281** | | **148,041,173** | | **11,611,203** | | **8,484,113** | | **5,569,811** | | **1,285,204** | | **1,080,159** | | **0** | | **0** | | **0** |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (Therms)** | **149,225** | **0** | | **0** | | **0** | | **4,435,833** | | **3,977** | | **0** | | **0** | | **0** | | **36,853** | | **0** | | **0** |
| **CY2023 Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent)||** | **4,373,783** | **0** | | **0** | | **0** | | **130,014,280** | | **116,554** | | **0** | | **0** | | **0** | | **1,080,159** | | **0** | | **0** |
| **Historic Portfolio Incremental Expiring Other Fuel Savings (kWh Equivalent Counted)** | **13,841,350** | **10,421,390** | | **38,043,981** | | **258,351** | | **6,330,146** | | **2,981,502** | | **2,914,303** | | **4,284,607** | | **0** | | **0** | | **0** | | **0** |
| **Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent)#** | **18,215,133** | **10,421,390** | | **38,043,981** | | **258,351** | | **136,344,426** | | **3,098,056** | | **2,914,303** | | **4,284,607** | | **0** | | **1,080,159** | | **0** | | **0** |

\* Lifetime savings are the sum of CPAS savings through the EUL.  
† kWh equivalent savings are calculated by multiplying therm savings by 29.31.  
  
  
‡Historic savings go back to CY2018.  
§ Portfolio Total Other Fuel CPAS (kWh Equivalent) is the sum of CY2023 equivalent kWh CPAS and historic equivalent kWh CPAS.  
|| Incremental expiring savings are equal to CPAS Yn-1 - CPAS Yn.  
# Portfolio Total Incremental Expiring Other Fuel Savings (kWh Equivalent) is the sum of CY2023 portfolio incremental equivalent kWh counted and historic portfolio incremental expiring equivalent kWh savings counted.  
*Source: Evaluation team analysis*

Below is the list of programs and measures with other fuel savings which were counted towards ComEd CPAS goal.

Table 2‑6: Measure List and Savings from Other Fuel Counting Toward ComEd Goal

| Sector | Program | Verified Gross Savings (Therms) | Verified Gross Savings (kWh Equivalent) | Verified Net Savings (Therms) | Verified Net Savings (kWh Equivalent) | Counted Measures (EUL) |
| --- | --- | --- | --- | --- | --- | --- |
| Income Eligible | Multifamily Upgrades | 574,493 | 16,838,385 | 551,864 | 16,175,121 | High Efficiency Boiler (25), Air Sealing (20), Attic Insulation (20), CA Water Heater (20), Crawl Space Ceiling Insulation (20), Foundation Insulation (20), High Efficiency Furnace (20), Steam Boiler Averaging Controls (20), Wall Insulation (20), Air Sealing (20), Attic Insulation/Air Sealing (20), Boiler Reset Controls (16), IU Programmable Thermostat (16), Programmable Thermostat (16), CA Pipe Insulation (15), Central Water Heater (15), Controls for Domestic Hot Water (15), Thermostatic Radiator Valve (15), Heating Plant Upgrade (15), Heating Plant Improvement (15), DHW Plant Improvement (15) |
| Income Eligible | New Construction - IE | 21,984 | 644,340 | 21,984 | 644,340 | High-Performance HVAC Equipment (20), Reduced Infiltration (20), Reduced Thermal Bridging (20), High-Performance Windows (20) |
| Income Eligible | Product Distribution | 220,749 | 6,470,146 | 220,749 | 6,470,146 | Closed Foam Weatherstripping (17' Roll) IE (20), Outlet Gasket IE (20), Switch Gasket IE (20), Weatherstripping IE (20), Self-Adhesive Door Sweep IE (20), Window Insulation Kit IE (20) |
| Income Eligible | Retail/Online | 2,348,540 | 68,835,718 | 2,348,540 | 68,835,718 | IE Air Sealing DAC (20), IE Air Sealing (20) |
| Income Eligible | Single-Family Upgrades | 2,134,415 | 62,559,708 | 2,134,415 | 62,559,708 | Natural Gas Boiler (25), Natural Gas Boiler (25), Natural Gas Boiler - DAC (25), Natural Gas Boiler - DAC (25), Air Sealing - Door Sweep - DI (20), Air Sealing - Door Sweep - VA (20), Air Sealing (20), Attic Insulation (20), Basement/Sidewall Insulation (20), Duct Insulation and Sealing (20), Floor Insulation Above Crawlspace (20), Natural Gas Furnace (20), Rim Joist Insulation (20), Wall Insulation (20), Air Sealing (20), Air Sealing - Door Sweep - DI (20), Air Sealing - Gasket - DI (20), Air Sealing - Sealing Tape - DI (20), Air Sealing - Weatherstripping - DI (20), Air Sealing - Window Film - DI (20), Attic Insulation (20), Basement/Sidewall Insulation (20), Duct Insulation and Sealing (20), Floor Insulation Above Crawlspace (20), Natural Gas Furnace (20), Rim Joist Insulation (20), Wall Insulation (20), Air Sealing (20), Air Sealing - Door Sweep - DI (20), Air Sealing - Sealing Tape - DI (20), Attic Insulation (20), Basement/Sidewall Insulation (20), Custom Measure (20), Duct Insulation and Sealing (20), Floor Insulation Above Crawlspace (20), Rim Joist Insulation (20), Wall Insulation (20), Air Sealing - Door Sweep - DI - DAC (20), Air Sealing - Door Sweep - VA - DAC (20), Air Sealing - DAC (20), Attic Insulation - DAC (20), Basement/Sidewall Insulation - DAC (20), Duct Insulation and Sealing - DAC (20), Floor Insulation Above Crawlspace - DAC (20), Natural Gas Furnace - DAC (20), Rim Joist Insulation - DAC (20), Wall Insulation - DAC (20), Air Sealing - DAC (20), Air Sealing - Door Sweep - DI - DAC (20), Air Sealing - Gasket - DI - DAC (20), Air Sealing - Sealing Tape - DI - DAC (20), Air Sealing - Weatherstripping - DI - DAC (20), Air Sealing - Window Film - DI - DAC (20), Attic Insulation - DAC (20), Basement/Sidewall Insulation - DAC (20), Duct Insulation and Sealing - DAC (20), Floor Insulation Above Crawlspace - DAC (20), Natural Gas Furnace - DAC (20), Rim Joist Insulation - DAC (20), Wall Insulation - DAC (20), Programmable Thermostat (16), Programmable Thermostat (16), Programmable Thermostat (16), Air Source Heat Pump (16), Clothes Dryer (16), Cooktop (16), Programmable Thermostat (16), Stove Replacement - Induction Cooktop (16), Dryer Replacement - Electric/HP Clothes Dryer (16), Air Source Heat Pump Installation (16), Programmable Thermostat - DAC (16), Programmable Thermostat - DAC (16), Programmable Thermostat - DAC (16), Boiler Pipe Insulation (15), Hot Water Pipe Insulation (15), Hot Water Pipe Insulation (15), Hot Water Pipe Insulation (15), Ductless Heat Pump (15), Heat Pump Water Heater (15), Hot Water Pipe Insulation (15), DHW Heater Replacement - Heat Pump (15), Hot Water Pipe Insulation - DAC (15), Hot Water Pipe Insulation - DAC (15), Hot Water Pipe Insulation - DAC (15) |
| Total |  | 5,300,181 | 155,348,297 | 5,277,551 | 154,685,034 |  |

Note: This table shows only gross and net other fuel savings counted towards ComEd’s goal in CY2023. Results shown for programs in sectors other than Income Eligible may be different from program specific reports.  
*Source: Evaluation team analysis*

Table 2‑7: CPAS from Electrification Counting Toward ComEd Goal-Program Level

|  | | | | | | | | | CPAS Verified Net kWh Savings | | | | | | | |  | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sector | Program | WAML\* | CY2023 Verified Gross Savings (kWh) | | NTG† | | Lifetime Net Savings (kWh)‡ | | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | |
| Business & Public Sector | Midstream/Upstream | 15 | 6,816,922 | | 1 | | 88,146,437 | |  | |  | |  | |  | |  | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | |
| Business & Public Sector | Incentives | 16 | 99,600 | | 1 | | 844,611 | |  | |  | |  | |  | |  | | 52,788 | | 52,788 | | 52,788 | | 52,788 | |
| Market Rate (Residential) | Contractor / Midstream Rebates | 16 | 32,628,021 | | 1 | | 393,652,948 | |  | |  | |  | |  | |  | | 26,693,673 | | 26,693,673 | | 26,693,673 | | 26,693,673 | |
| Market Rate (Residential) | New Construction - Pilot | 16 | 1,252,874 | | 1 | | 17,618,022 | |  | |  | |  | |  | |  | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | |
| Market Rate (Residential) | Retail/Online | 16 | 36,785 | | 1 | | 499,421 | |  | |  | |  | |  | |  | | 31,214 | | 31,214 | | 31,214 | | 31,214 | |
| Income Eligible | Single-Family Upgrades | 16 | 2,169,530 | | 1 | | 34,253,343 | |  | |  | |  | |  | |  | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | |
| Income Eligible | Multifamily Upgrades | 16 | 2,022,095 | | 1 | | 32,326,206 | |  | |  | |  | |  | |  | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | |
| Income Eligible | New Construction - IE | 14 | 1,933,079 | | 1 | | 26,149,122 | |  | |  | |  | |  | |  | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | |
| Income Eligible | Retail/Online | 16 | 4,098 | | 1 | | 65,576 | |  | |  | |  | |  | |  | | 4,098 | | 4,098 | | 4,098 | | 4,098 | |
| Pilot | Heat Pump Water Heater Pilot | 15 | 110,386 | | 1 | | 1,360,237 | |  | |  | |  | |  | |  | | 90,682 | | 90,682 | | 90,682 | | 90,682 | |
| **CY2023 Portfolio Total Electrification Contribution to CPAS** |  | **16** | **47,073,392** | | **1** | | **594,915,924** | | **0** | | **0** | | **0** | | **0** | | **0** | | **39,997,969** | | **39,997,969** | | **39,997,969** | | **39,997,969** | |
| **Historic Portfolio Total Electrification Contribution to CPAS§** |  |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **12,406,329** | | **12,406,329** | | **12,406,329** | | **12,406,329** | | **12,406,329** | |
| **Portfolio Total Electrification CPAS** |  |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **12,406,329** | | **52,404,298** | | **52,404,298** | | **52,404,298** | | **52,404,298** | |
| **CY2023 Portfolio Incremental Expiring Electrification Savings||** |  |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | |
| **Historic Portfolio Incremental Expiring Electrification Savings#** |  |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | |
| **Portfolio Grand Total Incremental Expiring Electrification Savings\*†** |  |  |  | |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | |
|  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Sector | Program | 2027 | | 2028 | | 2029 | | 2030 | | 2031 | | 2032 | | 2033 | | 2034 | | 2035 | | 2036 | | 2037 | | 2038 | |
| Business & Public Sector | Midstream/Upstream | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | | 5,876,429 | |  | |
| Business & Public Sector | Incentives | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | | 52,788 | |
| Market Rate (Residential) | Contractor / Midstream Rebates | 26,693,673 | | 26,693,673 | | 26,693,673 | | 24,898,645 | | 23,306,828 | | 23,306,828 | | 23,306,828 | | 23,306,828 | | 23,306,828 | | 23,306,828 | | 23,306,828 | | 17,334,168 | |
| Market Rate (Residential) | New Construction - Pilot | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 1,124,379 | | 752,332 | |
| Market Rate (Residential) | Retail/Online | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | | 31,214 | |
| Income Eligible | Single-Family Upgrades | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,169,530 | | 2,161,786 | | 2,161,786 | | 1,725,887 | |
| Income Eligible | Multifamily Upgrades | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 2,022,095 | | 1,994,775 | |
| Income Eligible | New Construction - IE | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,933,079 | | 1,003,109 | | 7,991 | | 7,991 | |
| Income Eligible | Retail/Online | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | | 4,098 | |
| Pilot | Heat Pump Water Heater Pilot | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | | 90,682 | |  | |
| **CY2023 Portfolio Total Electrification Contribution to CPAS** |  | **39,997,969** | | **39,997,969** | | **39,997,969** | | **38,202,941** | | **36,611,124** | | **36,611,124** | | **36,611,124** | | **36,611,124** | | **36,611,124** | | **35,673,411** | | **34,678,293** | | **21,903,253** | |
| **Historic Portfolio Total Electrification Contribution to CPAS§** |  | **12,406,329** | | **12,327,183** | | **11,854,007** | | **11,434,399** | | **11,434,399** | | **11,434,399** | | **11,434,399** | | **11,434,399** | | **10,038,499** | | **7,873,369** | | **4,981,062** | | **124,965** | |
| **Portfolio Total Electrification CPAS** |  | **52,404,298** | | **52,325,151** | | **51,851,976** | | **49,637,340** | | **48,045,523** | | **48,045,523** | | **48,045,523** | | **48,045,523** | | **46,649,623** | | **43,546,780** | | **39,659,355** | | **22,028,218** | |
| **CY2023 Portfolio Incremental Expiring Electrification Savings||** |  | **0** | | **0** | | **0** | | **1,795,028** | | **1,591,817** | | **0** | | **0** | | **0** | | **0** | | **937,714** | | **995,118** | | **12,775,040** | |
| **Historic Portfolio Incremental Expiring Electrification Savings#** |  | **0** | | **79,147** | | **473,175** | | **419,608** | | **0** | | **0** | | **0** | | **0** | | **1,395,900** | | **2,165,129** | | **2,892,307** | | **4,856,097** | |
| **Portfolio Grand Total Incremental Expiring Electrification Savings\*†** |  | **0** | | **79,147** | | **473,175** | | **2,214,636** | | **1,591,817** | | **0** | | **0** | | **0** | | **1,395,900** | | **3,102,843** | | **3,887,425** | | **17,631,137** | |
|  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Sector | Program | 2039 | | 2040 | | 2041 | | 2042 | | 2043 | | 2044 | | 2045 | | 2046 | | 2047 | | 2048 | | 2049 | | 2050 | |
| Business & Public Sector | Midstream/Upstream |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Business & Public Sector | Incentives |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Market Rate (Residential) | Contractor / Midstream Rebates | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | |  | |  | |  | |
| Market Rate (Residential) | New Construction - Pilot |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Market Rate (Residential) | Retail/Online |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Income Eligible | Single-Family Upgrades |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Income Eligible | Multifamily Upgrades |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Income Eligible | New Construction - IE |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Income Eligible | Retail/Online |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| Pilot | Heat Pump Water Heater Pilot |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| **CY2023 Portfolio Total Electrification Contribution to CPAS** |  | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **0** | | **0** | | **0** | |
| **Historic Portfolio Total Electrification Contribution to CPAS§** |  | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **0** | | **0** | | **0** | | **0** | |
| **Portfolio Total Electrification CPAS** |  | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **157,403** | | **0** | | **0** | | **0** | |
| **CY2023 Portfolio Incremental Expiring Electrification Savings||** |  | **21,745,850** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **157,403** | | **0** | | **0** | |
| **Historic Portfolio Incremental Expiring Electrification Savings#** |  | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **124,965** | | **0** | | **0** | | **0** | |
| **Portfolio Grand Total Incremental Expiring Electrification Savings\*†** |  | **21,745,850** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **124,965** | | **157,403** | | **0** | | **0** | |

\* WAML is the weighted average measure life across all measures and electrification savings in the program.  
† The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
‡ Lifetime savings are the sum of CPAS savings through the EUL.  
§ Historical electrification savings go back to CY2018.  
|| Incremental expiring savings are equal to CPAS Yn-1 - CPAS Yn.  
# Historic incremental expiring electrification savings are equal to Historic CPAS Yn-1 – Historic CPAS Yn.  
\*† Portfolio total incremental expiring savings are equal to current year total incremental expiring savings plus historic total incremental expiring savings.  
*Source: Evaluation team analysis*

Table 2‑8: CPAS from Electrification Counting Toward ComEd Goal-IE vs Non-IE

|  | | | | | | | | | | | CPAS Verified Net kWh Savings | | | | | | | |  | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sector | CY2023 Verified Gross Savings (kWh) | | Lifetime Net Savings (kWh) | | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | | 2025 | | 2026 | | |
| Income Eligible Electrification | 6,128,803 | | 92,794,247 | | 0 | | 0 | | 0 | | 0 | | 0 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | |
| All Other Electrification | 23,053,043 | | 274,210,004 | | 0 | | 0 | | 0 | | 0 | | 0 | | 18,386,409 | | 18,386,409 | | 18,386,409 | | 18,386,409 | | |
| **CY2023 Portfolio Total Electrification Contribution to CPAS** | **29,181,845** | | **367,004,251** | | **0** | | **0** | | **0** | | **0** | | **0** | | **24,515,212** | | **24,515,212** | | **24,515,212** | | **24,515,212** | | |
| **Historic Portfolio Total Electrification Contribution to CPAS§** |  | |  | | **0** | | **0** | | **0** | | **0** | | **12,406,329** | | **12,406,329** | | **12,406,329** | | **12,406,329** | | **12,406,329** | | |
| **Portfolio Total Electrification CPAS** |  | |  | | **0** | | **0** | | **0** | | **0** | | **12,406,329** | | **36,921,541** | | **36,921,541** | | **36,921,541** | | **36,921,541** | | |
| **CY2023 Portfolio Incremental Expiring Electrification Savings||** | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | |
| **Historic Portfolio Incremental Expiring Electrification Savings#** |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | |
| **Portfolio Grand Total Incremental Expiring Electrification Savings\*†** |  | |  | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | |
|  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | |
| Sector | 2027 | 2028 | | 2029 | | 2030 | | 2031 | | 2032 | | 2033 | | 2034 | | 2035 | | 2036 | | 2037 | | 2038 |
| Income Eligible Electrification | 6,128,803 | 6,128,803 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | 6,128,803 | | 5,191,089 | | 4,195,971 | | 3,732,752 |
| All Other Electrification | 18,386,409 | 18,386,409 | | 18,386,409 | | 17,057,422 | | 15,878,886 | | 15,878,886 | | 15,878,886 | | 15,878,886 | | 15,878,886 | | 15,878,886 | | 15,878,886 | | 15,878,886 |
| **CY2023 Portfolio Total Electrification Contribution to CPAS** | **24,515,212** | **24,515,212** | | **24,515,212** | | **23,186,225** | | **22,007,689** | | **22,007,689** | | **22,007,689** | | **22,007,689** | | **22,007,689** | | **21,069,975** | | **20,074,857** | | **19,611,638** |
| **Historic Portfolio Total Electrification Contribution to CPAS§** | **12,406,329** | **12,327,183** | | **11,854,007** | | **11,434,399** | | **11,434,399** | | **11,434,399** | | **11,434,399** | | **11,434,399** | | **10,038,499** | | **7,873,369** | | **4,981,062** | | **124,965** |
| **Portfolio Total Electrification CPAS** | **36,921,541** | **36,842,395** | | **36,369,219** | | **34,620,624** | | **33,442,088** | | **33,442,088** | | **33,442,088** | | **33,442,088** | | **32,046,188** | | **28,943,345** | | **25,055,920** | | **19,736,603** |
| **CY2023 Portfolio Incremental Expiring Electrification Savings||** | **0** | **0** | | **0** | | **1,328,987** | | **1,178,536** | | **0** | | **0** | | **0** | | **0** | | **937,714** | | **995,118** | | **463,219** |
| **Historic Portfolio Incremental Expiring Electrification Savings#** | **0** | **79,147** | | **473,175** | | **419,608** | | **0** | | **0** | | **0** | | **0** | | **1,395,900** | | **2,165,129** | | **2,892,307** | | **4,856,097** |
| **Portfolio Grand Total Incremental Expiring Electrification Savings\*†** | **0** | **79,147** | | **473,175** | | **1,748,596** | | **1,178,536** | | **0** | | **0** | | **0** | | **1,395,900** | | **3,102,843** | | **3,887,425** | | **5,319,316** |
|  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  |
| Sector | 2039 | 2040 | | 2041 | | 2042 | | 2043 | | 2044 | | 2045 | | 2046 | | 2047 | | 2048 | | 2049 | | 2050 |
| Income Eligible Electrification | 0 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| All Other Electrification | 157,403 | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 157,403 | | 0 | | 0 | | 0 |
| **CY2023 Portfolio Total Electrification Contribution to CPAS** | **157,403** | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **157,403** | | **0** | | **0** | | **0** |
| **Historic Portfolio Total Electrification Contribution to CPAS§** | **124,965** | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **124,965** | | **0** | | **0** | | **0** | | **0** |
| **Portfolio Total Electrification CPAS** | **282,368** | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **282,368** | | **157,403** | | **0** | | **0** | | **0** |
| **CY2023 Portfolio Incremental Expiring Electrification Savings||** | **19,454,235** | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **157,403** | | **0** | | **0** |
| **Historic Portfolio Incremental Expiring Electrification Savings#** | **0** | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **124,965** | | **0** | | **0** | | **0** |
| **Portfolio Grand Total Incremental Expiring Electrification Savings\*†** | **0** | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **0** | | **124,965** | | **0** | | **0** | | **0** |

\* WAML is the weighted average measure life across all measures and electrification savings in the program.  
† The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
‡ Lifetime savings are the sum of CPAS savings through the EUL.  
§ Historical electrification savings go back to CY2018.  
|| Incremental expiring savings are equal to CPAS Yn-1 - CPAS Yn.  
# Historic incremental expiring electrification savings are equal to Historic CPAS Yn-1 – Historic CPAS Yn.  
\*† Portfolio total incremental expiring savings are equal to current year total incremental expiring savings plus historic total incremental expiring savings.  
*Source: Evaluation team analysis*

Below is the list of programs and measures with electrification (fuel switch) savings which were counted towards ComEd CPAS goal.

Table 2‑9: Measure List and Savings from Electrification Counting Toward ComEd Goal

| Program | Component | IE | End Use Type | Savings Category | Quantity | Increase in Electricity Consumption (kWh) | Average Increase in Electricity Consumption (kWh) | Decrease in Gas Consumption (therms) | Average Decrease in Gas Consumption (therms) | Decrease in Gas Consumption (kWh) | Net Change in Electricity Consumption (kWh) | Ex Ante Gross Savings (kWh) | Program Gross Realization Rate | Verified Gross Savings (kWh) | Program Net-to-Gross Ratio (NTG) | Verified Net Savings (kWh) | EUL |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Contractor / Midstream Rebates | Midstream | FALSE | HVAC | Midstream ASHP - Electrification | 1,682 | 9,575,613 | 5,691 | 1,104,555 | 657 | 32,374,493 | 22,798,880 | 22,797,028 | 1.00 | 22,797,028 | 0.80 | 18,237,623 | 16.0 |
| Contractor / Midstream Rebates | Midstream | FALSE | HVAC | Midstream ASHP - Electrification - DAC | 130 | 705,150 | 5,410 | 81,340 | 624 | 2,384,064 | 11,665 | 11,664 | 1.00 | 11,664 | 1.00 | 11,664 | 16.0 |
| Contractor / Midstream Rebates | Midstream | FALSE | HVAC | Ground Source Heat Pump - Electrification | 10 | 44,790 | 4,479 | 8,298 | 830 | 243,204 | 198,414 | 227,480 | 1.02 | 232,411 | 0.59 | 137,123 | 25.0 |
| Multifamily Upgrades | Elevate | TRUE | HVAC | Air Source Heat Pump Installation | 61 | 104,549 | 1,714 | 8,501 | 139 | 249,179 | 144,629 | 852,317 | 1.05 | 894,933 | 1.00 | 894,933 | 16.0 |
| Multifamily Upgrades | Elevate | TRUE | Hot Water | DHW Heater Replacement - Heat Pump | 1 | 6,498 | 6,498 | 1,144 | 1,144 | 33,532 | 27,033 | 26,020 | 1.05 | 27,321 | 1.00 | 27,321 | 15.0 |
| Multifamily Upgrades | Elevate | TRUE | Appliances | Stove Replacement - Electric Range | 56 | 410 | 7 | 30 | 1 | 888 | 479 | 8,932 | 1.05 | 9,379 | 1.00 | 9,379 | 16.0 |
| Multifamily Upgrades | Franklin | TRUE | HVAC | ASHP Heat Pump | 114 | 160,437 | 1,407 | 40,909 | 359 | 1,199,042 | 1,038,605 | 1,038,536 | 1.05 | 1,090,463 | 1.00 | 1,090,463 | 16.0 |
| New Construction - IE | Affordable Housing New Construction | TRUE | HVAC | High Performance HVAC Equipment-Air Source Heat Pump-Residential | 4 | 13,381 | 3,345 | 1,662 | 416 | 48,713 | 35,332 | 33,469 | 1.06 | 35,332 | 1.00 | 35,332 | 16.0 |
| New Construction - IE | Affordable Housing New Construction | TRUE | HVAC | High Performance HVAC Equipment-Air Source Heat Pump-Commercial | 2 | 2,308 | 1,154 | 479 | 239 | 14,035 | 11,727 | 11,109 | 1.06 | 11,727 | 1.00 | 11,727 | 15.0 |
| New Construction - IE | Affordable Housing New Construction | TRUE | HVAC | High Performance HVAC Equipment-Electrification-VRF | 14 | 178,699 | 12,764 | 49,835 | 3,560 | 1,460,676 | 1,281,976 | 1,214,368 | 1.06 | 1,281,976 | 1.00 | 1,281,976 | 16.0 |
| New Construction - IE | Affordable Housing New Construction | TRUE | HVAC | High Performance HVAC Equipment-PTHP | 198 | 223,590 | 1,129 | 27,965 | 141 | 819,642 | 596,052 | 564,618 | 1.06 | 596,052 | 1.00 | 596,052 | 8.0 |
| New Construction - IE | Affordable Housing New Construction | TRUE | Appliances | Efficient Appliances-Electrification | 80 | 20,853 | 261 | 984 | 12 | 28,844 | 7,991 | 11,445 | 0.70 | 7,991 | 1.00 | 7,991 | 16.0 |
| Retail/Online | Appliance Rebates | TRUE | Appliances | IE Heat Pump FS DAC | 1 | (71) | (71) | 1 | 1 | 373 | 444 | 370 | 1.20 | 443 | 1.00 | 443 | 16.0 |
| Retail/Online | Appliance Rebates | TRUE | Appliances | IE Heat Pump FS | 4 | (284) | (71) | 5 | 1 | 1,490 | 1,774 | 1,481 | 1.20 | 1,774 | 1.00 | 1,774 | 16.0 |
| Retail/Online | Appliance Rebates | TRUE | Appliances | IE Induction Cooktop FS DAC | 1 | 125 | 125 | 1 | 1 | 296 | 171 | 12 | 14.83 | 171 | 1.00 | 171 | 16.0 |
| Retail/Online | Appliance Rebates | TRUE | Appliances | IE Induction Cooktop FS | 10 | 1,250 | 125 | 10 | 1 | 2,960 | 1,710 | 115 | 14.83 | 1,710 | 1.00 | 1,710 | 16.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Resource Innovations | TRUE | HVAC | Air Source Heat Pump - Electrification | 63 | 716,402 | 11,371 | 60,418 | 959 | 1,770,253 | 1,053,851 | 1,057,263 | 1.00 | 1,053,851 | 1.00 | 1,053,851 | 16.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Resource Innovations | TRUE | Appliances | Clothes Dryer - Electrification | 58 | 37,197 | 641 | 1,385 | 24 | 40,584 | 3,388 | 9,342 | 0.36 | 3,388 | 1.00 | 3,388 | 16.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Resource Innovations | TRUE | Appliances | Cooktop - Electrification | 69 | 7,871 | 114 | 565 | 8 | 16,559 | 8,688 | 7,962 | 1.09 | 8,688 | 1.00 | 8,688 | 16.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Resource Innovations | TRUE | HVAC | Ductless Heat Pump - Electrification | 2 | 14,221 | 7,110 | 1,756 | 878 | 51,457 | 37,237 | 37,185 | 1.00 | 37,237 | 1.00 | 37,237 | 15.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Resource Innovations | TRUE | Hot Water | Electric Water Heater - Electrification | 2 | 1,247 | 624 | 307 | 153 | 8,991 | 7,744 | 7,726 | 1.00 | 7,744 | 1.00 | 7,744 | 13.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Resource Innovations | TRUE | HVAC | Heat Pump Water Heater - Electrification | 61 | 55,165 | 904 | 11,055 | 181 | 323,913 | 268,748 | 278,305 | 0.97 | 268,748 | 1.00 | 268,748 | 15.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Elevate | TRUE | Appliances | Stove Replacement - Induction Cooktop - Electrification | 37 | 5,879 | 159 | 475 | 13 | 13,923 | 8,044 | 8,039 | 1.00 | 8,044 | 1.00 | 8,044 | 16.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Elevate | TRUE | HVAC | Air Source Heat Pump Installation - Electrification | 29 | 448,241 | 15,457 | 37,535 | 1,294 | 1,100,158 | 651,917 | 653,765 | 1.00 | 651,917 | 1.00 | 651,917 | 16.0 |
| Single-Family Upgrades | IE Whole Home Electrification - Elevate | TRUE | HVAC | DHW Heater Replacement - Heat Pump - Electrification | 34 | 22,249 | 654 | 5,192 | 153 | 152,163 | 129,914 | 129,845 | 1.00 | 129,914 | 1.00 | 129,914 | 15.0 |
| **Total** | **-** | **-** | **-** | **-** | **2,724** | **12,345,770** | **81,003** | **1,444,407** | **11,789** | **42,339,432** | **28,326,413** | **28,988,397** | **1.01** | **29,169,906** | **0.84** | **24,515,212** | **15.9** |

Note: This table shows only gross and net electrification (fuel switch) savings counted towards ComEd’s goal in CY2023. Results shown for programs in sectors other than Income Eligible may be different from program specific reports.  
*Source: Evaluation team analysis*

Table 2‑10: Total CPAS Counting Toward ComEd Goal– Electric Direct + Other Fuel Counted + Electrification Counted

|  | | | | | | CPAS Verified Net kWh Savings | | | |  | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sector | Program | WAML | CY2023 Verified Gross Savings (kWh) | NTG\* | Lifetime Net Savings (kWh)† | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Business & Public Sector | Small Business | 13 | 233,649,049 | 1 | 3,123,803,369 | 0 | 0 | 0 | 0 | 0 | 227,894,346 | 227,861,072 | 232,006,085 | 251,076,865 |
| Business & Public Sector | Incentives | 14 | 210,902,058 | 1 | 2,698,795,163 | 0 | 0 | 0 | 0 | 0 | 194,124,374 | 194,124,374 | 193,489,706 | 192,581,919 |
| Business & Public Sector | Midstream/Upstream | 13 | 141,750,009 | 1 | 1,566,918,012 | 0 | 0 | 0 | 0 | 0 | 122,085,232 | 122,085,232 | 115,799,317 | 115,799,317 |
| Business & Public Sector | Targeted Systems | 8 | 93,229,625 | 1 | 610,938,843 | 0 | 0 | 0 | 0 | 0 | 80,090,795 | 80,090,795 | 80,090,795 | 58,287,944 |
| Business & Public Sector | Behavior Bus/Pub | 7 | 42,520,929 | 1 | 297,646,503 | 0 | 0 | 0 | 0 | 0 | 42,520,929 | 42,520,929 | 42,520,929 | 42,520,929 |
| Business & Public Sector | New Construction - Bus/Pub | 17 | 20,659,503 | 1 | 203,680,366 | 0 | 0 | 0 | 0 | 0 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 |
| Business & Public Sector | Assessments | 4 | 2,455,483 | 1 | 8,316,215 | 0 | 0 | 0 | 0 | 0 | 2,309,581 | 2,309,581 | 1,623,600 | 1,160,538 |
| Res & IE | Retail/Online | 13 | 305,310,991 | 1 | 3,522,522,452 | 0 | 0 | 0 | 0 | 0 | 273,477,687 | 273,477,306 | 263,677,517 | 263,677,517 |
| Res & IE | Product Distribution | 9 | 305,259,868 | 1 | 2,545,012,293 | 0 | 0 | 0 | 0 | 0 | 305,051,200 | 305,051,200 | 302,680,627 | 302,680,627 |
| Res & IE | Single-Family Upgrades | 18 | 75,842,748 | 1 | 1,251,836,210 | 0 | 0 | 0 | 0 | 0 | 75,772,233 | 76,021,555 | 76,021,555 | 75,869,957 |
| Res & IE | Multifamily Upgrades | 15 | 52,063,908 | 1 | 753,988,408 | 0 | 0 | 0 | 0 | 0 | 51,051,571 | 50,998,688 | 50,336,374 | 50,309,712 |
| Res & IE | Contractor / Midstream Rebates | 16 | 39,013,682 | 1 | 445,541,322 | 0 | 0 | 0 | 0 | 0 | 31,445,631 | 31,445,631 | 31,445,631 | 31,413,789 |
| Res & IE | New Construction - IE | 15 | 3,680,143 | 1 | 56,672,824 | 0 | 0 | 0 | 0 | 0 | 3,680,143 | 3,680,143 | 3,680,143 | 3,680,143 |
| Res & IE | ASI kWh | 20 | 877,947 | 1 | 15,115,464 | 0 | 0 | 0 | 0 | 0 | 791,055 | 791,055 | 791,055 | 791,055 |
| Res & IE | New Construction - Pilot | 13 | 366,574 | 1 | 4,401,582 | 0 | 0 | 0 | 0 | 0 | 328,978 | 328,978 | 308,193 | 308,193 |
| Res & IE | Behavior - Res/IE | 10 | 0 |  | 292,207,810 | 0 | 0 | 0 | 0 | 0 | 82,505,806 | 60,133,944 | 43,949,562 | 31,650,464 |
| Pilot | Industrial Energy Management Information Systems | 5 | 1,653,013 | 1 | 6,612,052 | 0 | 0 | 0 | 0 | 0 | 1,322,410 | 1,322,410 | 1,322,410 | 1,322,410 |
| Pilot | Heat Pump Water Heater Pilot | 15 | 25,545 | 1 | 306,544 | 0 | 0 | 0 | 0 | 0 | 20,436 | 20,436 | 20,436 | 20,436 |
| Market Transformation | ENERGY STAR Retail Products Platform | 14 | 11,243,046 | 1 | 158,346,481 | 0 | 0 | 0 | 0 | 0 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 |
| Voltage Optimization | Voltage Optimization | 15 | 68,991,654 | 1 | 1,034,874,812 | 0 | 0 | 0 | 0 | 0 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 |
| CY2023 Portfolio Total Contribution to CPAS (kWh) |  |  | 1,609,495,776 |  | 18,597,536,724 | 0 | 0 | 0 | 0 | 0 | 1,586,412,876 | 1,564,203,797 | 1,531,704,403 | 1,515,092,282 |
| **Historic Portfolio Total Contribution to CPAS‡** |  |  |  |  |  | **1,859,781,075** | **3,426,787,036** | **5,139,036,924** | **6,513,673,306** | **8,083,256,428** | **7,867,930,408** | **7,383,679,746** | **6,943,551,953** | **6,539,876,187** |
| **Legacy Savings (kWh)§** |  |  |  |  |  | **0** | **4,087,238,480** | **3,537,033,300** | **3,144,029,597** | **2,933,997,266** | **2,573,016,371** | **2,324,014,787** | **2,075,013,202** | **1,909,012,146** |
| **Portfolio Total CPAS (kWh)** |  |  |  |  |  | **1,859,781,075** | **7,514,025,516** | **8,676,070,224** | **9,657,702,903** | **11,017,253,694** | **12,027,359,655** | **11,271,898,330** | **10,550,269,559** | **9,963,980,615** |
| **CY2023 Portfolio Incremental Expiring Savings||** |  |  |  |  |  | **0** | **0** | **0** | **0** | **0** | **0** | **22,209,078** | **32,499,394** | **16,612,121** |
| **Historic Portfolio Incremental Expiring Savings#** |  |  |  |  |  | **0** | **0** | **0** | **0** | **154,158,999** | **215,326,019** | **484,250,662** | **440,127,793** | **403,675,766** |
| **Legacy Incremental Expiring Savings** |  |  |  |  |  | **0** | **-4,087,238,480** | **360,980,895** | **393,003,703** | **210,032,331** | **360,980,895** | **249,001,584** | **249,001,584** | **166,001,056** |
| **Portfolio Grand Total Incremental Expiring Savings\*†** |  |  |  |  |  | **0** | **-4,087,238,480** | **360,980,895** | **393,003,703** | **364,191,330** | **576,306,914** | **755,461,325** | **721,628,772** | **586,288,943** |
| **Progress towards Applicable Annual Incremental Goal (AAIG)†‡** |  |  |  |  |  | **0** | **0** | **0** | **0** | **0** | **1,010,105,961** | **0** | **0** | **0** |

| Sector | Program | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 247,187,095 | 241,050,312 | 240,402,818 | 239,604,932 | 237,377,532 | 229,323,088 | 210,845,910 | 166,328,411 | 139,128,223 | 123,262,938 | 110,445,014 | 873 |
| Business & Public Sector | Incentives | 192,183,207 | 190,940,383 | 187,166,641 | 184,334,637 | 183,455,092 | 182,921,337 | 170,155,732 | 139,737,274 | 123,607,660 | 114,467,977 | 111,618,161 | 21,965,291 |
| Business & Public Sector | Midstream/Upstream | 111,209,102 | 107,002,847 | 107,002,847 | 107,002,847 | 107,002,847 | 106,985,737 | 101,990,010 | 92,991,451 | 87,889,362 | 87,889,362 | 73,946,371 | 53,059 |
| Business & Public Sector | Targeted Systems | 57,500,997 | 57,500,997 | 57,500,997 | 40,346,550 | 25,839,793 | 15,107,517 | 15,091,263 | 15,091,263 | 15,091,263 | 3,578,104 | 3,578,104 | 768,958 |
| Business & Public Sector | Behavior Bus/Pub | 42,520,929 | 42,520,929 | 42,520,929 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | New Construction - Bus/Pub | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 | 11,705,768 |
| Business & Public Sector | Assessments | 912,916 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Retail/Online | 251,048,822 | 250,779,345 | 249,247,368 | 226,090,767 | 148,572,353 | 140,969,728 | 130,598,461 | 121,262,541 | 118,169,372 | 118,164,450 | 116,699,043 | 115,610,987 |
| Res & IE | Product Distribution | 278,487,741 | 278,487,741 | 278,487,741 | 268,254,608 | 22,042,722 | 22,042,722 | 18,174,537 | 18,174,537 | 18,174,537 | 18,174,537 | 18,174,537 | 18,174,537 |
| Res & IE | Single-Family Upgrades | 75,812,870 | 74,439,167 | 73,098,282 | 72,084,464 | 66,539,197 | 66,503,077 | 57,838,697 | 56,036,249 | 55,243,886 | 54,335,322 | 54,336,228 | 52,994,756 |
| Res & IE | Multifamily Upgrades | 50,294,626 | 47,328,830 | 41,993,054 | 41,104,494 | 39,992,647 | 39,862,521 | 39,230,043 | 38,126,401 | 37,046,352 | 37,032,216 | 37,026,406 | 21,935,968 |
| Res & IE | Contractor / Midstream Rebates | 31,413,789 | 31,413,789 | 28,111,023 | 26,669,949 | 25,392,015 | 25,392,015 | 25,391,675 | 24,969,363 | 24,969,363 | 24,969,363 | 24,969,363 | 23,007,321 |
| Res & IE | New Construction - IE | 3,680,143 | 3,680,143 | 3,680,143 | 3,680,143 | 3,680,143 | 3,675,638 | 3,667,417 | 3,634,888 | 3,633,036 | 2,697,894 | 1,509,864 | 939,030 |
| Res & IE | ASI kWh | 791,055 | 791,055 | 791,055 | 791,055 | 791,055 | 791,055 | 720,492 | 720,492 | 720,492 | 720,492 | 720,492 | 720,492 |
| Res & IE | New Construction - Pilot | 308,193 | 308,193 | 308,193 | 308,193 | 308,193 | 308,193 | 235,018 | 189,868 | 189,868 | 174,393 | 168,809 | 101,682 |
| Res & IE | Behavior - Res/IE | 23,291,538 | 17,067,278 | 12,656,637 | 9,262,763 | 6,737,921 | 4,951,895 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Industrial Energy Management Information Systems | 1,322,410 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Heat Pump Water Heater Pilot | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 20,436 | 0 |
| Market Transformation | ENERGY STAR Retail Products Platform | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 11,243,046 | 943,844 | 0 |
| Voltage Optimization | Voltage Optimization | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 68,991,654 | 0 |
| CY2023 Portfolio Total Contribution to CPAS (kWh) |  | 1,459,926,336 | 1,435,271,911 | 1,414,928,631 | 1,311,496,307 | 959,692,414 | 930,795,426 | 865,900,157 | 769,223,642 | 715,824,317 | 677,427,950 | 634,854,091 | 267,978,720 |
| **Historic Portfolio Total Contribution to CPAS‡** |  | **6,233,513,300** | **5,632,095,949** | **5,213,131,205** | **4,553,233,525** | **3,947,595,134** | **3,332,518,643** | **2,746,019,659** | **2,156,650,831** | **1,516,589,992** | **842,650,614** | **370,390,164** | **317,012,825** |
| **Legacy Savings (kWh)§** |  | **1,743,011,090** | **1,494,009,506** | **1,411,008,978** | **1,245,007,921** | **1,079,006,865** | **913,005,809** | **747,004,753** | **581,003,697** | **415,002,640** | **332,002,112** | **249,001,584** | **166,001,056** |
| **Portfolio Total CPAS (kWh)** |  | **9,436,450,726** | **8,561,377,366** | **8,039,068,814** | **7,109,737,753** | **5,986,294,414** | **5,176,319,879** | **4,358,924,568** | **3,506,878,169** | **2,647,416,949** | **1,852,080,676** | **1,254,245,840** | **750,992,601** |
| **CY2023 Portfolio Incremental Expiring Savings||** |  | **55,165,946** | **24,654,425** | **20,343,280** | **103,432,325** | **351,803,892** | **28,896,988** | **64,895,270** | **96,676,515** | **53,399,325** | **38,396,367** | **42,573,858** | **366,875,372** |
| **Historic Portfolio Incremental Expiring Savings#** |  | **306,362,887** | **601,417,351** | **418,964,744** | **659,897,680** | **605,638,391** | **615,076,491** | **586,498,985** | **589,368,828** | **640,060,839** | **673,939,378** | **472,260,450** | **53,377,340** |
| **Legacy Incremental Expiring Savings** |  | **166,001,056** | **249,001,584** | **83,000,528** | **166,001,056** | **166,001,056** | **166,001,056** | **166,001,056** | **166,001,056** | **166,001,056** | **83,000,528** | **83,000,528** | **83,000,528** |
| **Portfolio Grand Total Incremental Expiring Savings\*†** |  | **527,529,889** | **875,073,360** | **522,308,552** | **929,331,061** | **1,123,443,339** | **809,974,535** | **817,395,311** | **852,046,399** | **859,461,220** | **795,336,273** | **597,834,836** | **503,253,239** |
| **Progress towards Applicable Annual Incremental Goal (AAIG)†‡** |  | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

| Sector | Program | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 873 | 873 | 873 | 873 | 873 | 873 | 873 | 873 | 873 | 0 | 0 | 0 |
| Business & Public Sector | Incentives | 21,958,253 | 21,696,049 | 20,945,742 | 20,945,742 | 12,660,365 | 11,406,801 | 11,406,801 | 585,988 | 315,657 | 0 | 0 | 0 |
| Business & Public Sector | Midstream/Upstream | 53,059 | 53,059 | 53,059 | 23,897 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Targeted Systems | 768,958 | 768,958 | 768,958 | 768,958 | 768,958 | 768,958 | 768,958 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Behavior Bus/Pub | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | New Construction - Bus/Pub | 11,705,768 | 4,682,307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business & Public Sector | Assessments | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Retail/Online | 115,386,060 | 115,386,060 | 115,385,063 | 114,842,006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Product Distribution | 18,174,537 | 18,174,537 | 18,174,537 | 18,174,537 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Single-Family Upgrades | 47,188,853 | 47,188,853 | 47,043,322 | 46,687,881 | 156,165 | 155,910 | 155,910 | 155,910 | 155,910 | 0 | 0 | 0 |
| Res & IE | Multifamily Upgrades | 18,906,589 | 18,905,488 | 18,905,488 | 18,905,488 | 948,988 | 948,988 | 948,988 | 924,249 | 924,249 | 0 | 0 | 0 |
| Res & IE | Contractor / Midstream Rebates | 735,329 | 735,329 | 247,080 | 247,080 | 231,359 | 231,359 | 231,359 | 231,359 | 231,359 | 0 | 0 | 0 |
| Res & IE | New Construction - IE | 923,683 | 923,683 | 923,683 | 906,163 | 116,554 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | ASI kWh | 720,492 | 720,492 | 720,492 | 720,492 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | New Construction - Pilot | 58,492 | 58,492 | 58,492 | 42,969 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Res & IE | Behavior - Res/IE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Industrial Energy Management Information Systems | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pilot | Heat Pump Water Heater Pilot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market Transformation | ENERGY STAR Retail Products Platform | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Voltage Optimization | Voltage Optimization | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CY2023 Portfolio Total Contribution to CPAS (kWh) |  | 236,580,946 | 229,294,182 | 223,226,789 | 222,266,086 | 14,883,262 | 13,512,890 | 13,512,890 | 1,898,379 | 1,628,048 | 0 | 0 | 0 |
| **Historic Portfolio Total Contribution to CPAS‡** |  | **279,730,220** | **254,656,972** | **150,611,484** | **51,222,364** | **31,675,249** | **21,754,532** | **8,484,772** | **2,373,647** | **443,970** | **443,970** | **443,970** | **443,970** |
| **Legacy Savings (kWh)§** |  | **83,000,528** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Portfolio Total CPAS (kWh)** |  | **599,311,694** | **483,951,154** | **373,838,273** | **273,488,450** | **46,558,511** | **35,267,421** | **21,997,662** | **4,272,026** | **2,072,018** | **443,970** | **443,970** | **443,970** |
| **CY2023 Portfolio Incremental Expiring Savings||** |  | **31,397,774** | **7,286,765** | **6,067,392** | **960,703** | **207,382,824** | **1,370,373** | **0** | **11,614,510** | **270,331** | **1,628,048** | **0** | **0** |
| **Historic Portfolio Incremental Expiring Savings#** |  | **37,282,605** | **25,073,248** | **104,045,488** | **99,389,120** | **19,547,115** | **9,920,717** | **13,269,760** | **6,111,125** | **1,929,677** | **0** | **0** | **0** |
| **Legacy Incremental Expiring Savings** |  | **83,000,528** | **83,000,528** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Portfolio Grand Total Incremental Expiring Savings\*†** |  | **151,680,907** | **115,360,541** | **110,112,881** | **100,349,823** | **226,929,939** | **11,291,089** | **13,269,760** | **17,725,635** | **2,200,008** | **1,628,048** | **0** | **0** |
| **Progress towards Applicable Annual Incremental Goal (AAIG)†‡** |  | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

\* The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
† Lifetime savings are the sum of CPAS savings through the EUL.  
‡ Historic savings go back to CY2018.  
§ Legacy savings are cumulative persisting annual savings from energy efficiency measures implemented from January 1, 2012 - December 31, 2017, as deemed by CEJA.  
|| 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.  
\*† Portfolio total incremental expiring savings are equal to current year total incremental expiring savings plus historic total incremental expiring savings and legacy incremental expiring savings.  
†‡ AAIG is equal to CPAS Yn - CPAS Yn-1.  
*Source: Evaluation team analysis*

## Weighted Average Measure Life

Guidehouse calculated the weighted average measure life (WAML) for the CY2023 programs as 12.2 years excluding Voltage Optimization and 12.3 years including Voltage Optimization.

The equation to calculate the portfolio level WAML is shown in Equation 2‑5 where the summation occurs across all programs with savings during CY2023, except for Voltage Optimization. The WAML calculation includes the electric-equivalent of the portion of other fuel savings and electrification savings that ComEd can claim toward goal, as discussed in the previous section.

Equation 2‑5. Portfolio Level WAML Calculation

Where

*Program Level WAML* is the program level WAML

*Program Level Verified Gross Savings* is the gross verified savings for the program that occurred during CY2023 including electric and claimable gas savings.

The program level WAML is calculated as shown in Equation 2‑6 where the summation occurs across all the measures[[10]](#footnote-10) in the program.

Equation 2‑6. Program Level WAML Calculation

Where

*Measure Level EUL* is the effective useful life (EUL) for each measure in the program[[11]](#footnote-11)

*Measure Level Verified Gross Savings* is the gross verified savings during the period for each measure in the program

Table 2‑11 shows savings for each program and the calculated WAML. The lifetime savings are estimated by multiplying the first year verified gross savings by the WAML

Table 2‑11: WAML and Verified Gross Savings by Program

| Sector | Program | First Year Verified Gross Savings (kWh) | WAML |
| --- | --- | --- | --- |
|  | Business & Public Sector |  |  |
| Business & Public Sector | Small Business | 233,649,049 | 13.1 |
| Business & Public Sector | Incentives | 210,902,058 | 14.2 |
| Business & Public Sector | Midstream/Upstream | 141,750,009 | 13.1 |
| Business & Public Sector | Targeted Systems | 93,229,625 | 7.7 |
| Business & Public Sector | Behavior Bus/Pub | 42,520,929 | 7.0 |
| Business & Public Sector | New Construction - Bus/Pub | 20,659,503 | 17.4 |
| Business & Public Sector | Assessments | 2,455,483 | 3.6 |
| Business & Public Sector | Subtotal | 745,166,656 | 12.5 |
|  | Res & IE |  |  |
| Res & IE | Retail/Online | 305,310,991 | 13.1 |
| Res & IE | Product Distribution | 305,259,868 | 8.8 |
| Res & IE | Behavior - Res/IE\* | 82,505,806 | 10.0 |
| Res & IE | Single-Family Upgrades | 75,842,748 | 18.3 |
| Res & IE | Multifamily Upgrades | 52,063,908 | 15.0 |
| Res & IE | Contractor / Midstream Rebates | 39,013,682 | 16.0 |
| Res & IE | New Construction - IE | 3,680,143 | 15.4 |
| Res & IE | ASI kWh | 877,947 | 20.0 |
| Res & IE | New Construction - Pilot | 366,574 | 13.4 |
| Res & IE | Subtotal | 864,921,669 | 12.0 |
|  | Pilot |  |  |
| Pilot | Industrial Energy Management Information Systems | 1,653,013 | 5.0 |
| Pilot | Heat Pump Water Heater Pilot | 25,545 | 15.0 |
| Pilot | Subtotal | 1,678,558 | 5.2 |
|  | Market Transformation |  |  |
| Market Transformation | ENERGY STAR Retail Products Platform | 11,243,046 | 14.1 |
| Market Transformation | Subtotal | 11,243,046 | 14.1 |
| Portfolio | Grand Total | 1,623,009,929 | 12.2 |
|  | Voltage Optimization |  |  |
| Voltage Optimization | Voltage Optimization | 68,991,654 | 15.0 |
| Voltage Optimization | Subtotal | 68,991,654 | 15.0 |
| Portfolio | Total Including VO | 1,692,001,583 | 12.3 |

Note: Verified Gross Savings include both electric savings and converted kWh equivalents from other fuel counted towards goal, electrification savings, and secondary electric energy (kWh) savings from water supply and wastewater treatment plants for measures claimed by ComEd. The WAML values in this table will differ from Table 2-3 for programs that saved other fuel because some programs have different electric and other fuel WAML based on measure types and whether they saved other fuel. Therefore, the WAML shown in this table is a weighted value for programs that saved both electric and other fuel.  
\* No verified gross savings. Verified Net savings are used for WAML calculation.  
*Source: Evaluation team analysis*

# Savings by Program

The electricity savings by program are shown in the following tables and figures. Table 3‑1 shows the direct electric savings which includes primary kWh savings from efficient measures (includes efficiency savings from fuel switching measures but excludes the fuel switching savings), and secondary kWh savings from water supply and wastewater treatment from measures claimed by ComEd. It also includes carryover savings, and applicable electric heating penalties. It does not include other fuel savings and electrification (fuel switch) converted to electricity. Table 3‑2 includes savings from gas and electrification converted to electricity, counting only those savings that ComEd can claim within the 10% limit for other fuel and 5% limit for electrification, as discussed above in Section 2-1.

Table 3‑1: Energy Savings by Program – Electric Only

| Sector | Program | Ex Ante Gross Savings (kWh) | Verified Gross Realization Rate | Verified Gross Savings (kWh) | NTG\* | Verified Net Savings (kWh) |
| --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 232,510,311 | 1.00 | 233,649,049 | 0.98 | 227,894,346 |
| Business & Public Sector | Incentives | 225,342,409 | 0.94 | 210,902,058 | 0.92 | 194,124,374 |
| Business & Public Sector | Midstream/Upstream | 112,321,621 | 1.26 | 141,750,009 | 0.86 | 122,085,232 |
| Business & Public Sector | Targeted Systems | 99,141,453 | 0.94 | 93,229,625 | 0.86 | 80,090,795 |
| Business & Public Sector | Behavior Bus/Pub | 42,544,332 | 1.00 | 42,520,929 | 1.00 | 42,520,929 |
| Business & Public Sector | New Construction - Bus/Pub | 20,505,218 | 1.01 | 20,659,503 | 0.57 | 11,705,768 |
| Business & Public Sector | Assessments | 2,606,766 | 0.94 | 2,455,483 | 0.94 | 2,309,581 |
| Business & Public Sector | Subtotal | 734,972,109 | 1.01 | 745,166,656 | 0.91 | 680,731,026 |
| Res & IE | Product Distribution | 273,570,963 | 1.09 | 298,789,722 | 1.00 | 298,581,053 |
| Res & IE | Retail/Online | 195,379,737 | 1.21 | 236,471,174 | 0.87 | 204,637,870 |
| Res & IE | Multifamily Upgrades | 30,564,183 | 1.09 | 33,203,428 | 0.99 | 32,854,354 |
| Res & IE | Contractor / Midstream Rebates | 16,374,091 | 0.97 | 15,960,640 | 0.82 | 13,059,221 |
| Res & IE | Single-Family Upgrades | 10,930,599 | 1.02 | 11,113,511 | 0.99 | 11,042,996 |
| Res & IE | New Construction - IE | 955,337 | 1.15 | 1,102,724 | 1.00 | 1,102,724 |
| Res & IE | ASI kWh | 877,768 | 1.00 | 877,947 | 0.90 | 791,055 |
| Res & IE | New Construction - Pilot | 241,946 | 1.52 | 366,574 | 0.90 | 328,978 |
| Res & IE | Behavior - Res/IE | 0 |  | 0 |  | 82,505,806 |
| Res & IE | Subtotal | 528,894,624 | 1.13 | 597,885,720 | 1.08 | 644,904,058 |
| Pilot | Industrial Energy Management Information Systems | 1,734,366 | 0.95 | 1,653,013 | 0.80 | 1,322,410 |
| Pilot | Heat Pump Water Heater Pilot | 23,465 | 1.09 | 25,545 | 0.80 | 20,436 |
| Pilot | Subtotal | 1,757,831 | 0.95 | 1,678,558 | 0.80 | 1,342,847 |
| Market Transformation | ENERGY STAR Retail Products Platform | 3,460,734 | 3.25 | 11,243,046 | 1.00 | 11,243,046 |
| Market Transformation | Subtotal | 3,460,734 | 3.25 | 11,243,046 | 1.00 | 11,243,046 |
| Voltage Optimization | Voltage Optimization | 68,604,187 | 1.01 | 68,991,654 | 1.00 | 68,991,654 |
| Voltage Optimization | Subtotal | 68,604,187 | 1.01 | 68,991,654 | 1.00 | 68,991,654 |
| Portfolio | Grand Total | 1,337,689,485 | 1.07 | 1,424,965,634 | 0.99 | 1,407,212,630 |

Note: Programs that verified gross and net kWh savings include carryover savings are Midstream/Upstream, Retail Online, Small Business, Single Family Upgrades and Product Distribution.  
\* The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
Guidehouse calculated the portfolio NTG ratio by dividing the total net savings by the total verified gross savings.  
† Program did not report ex ante gross savings, and thus the evaluation did not calculate verified gross savings but only verified net savings.  
*Source: Evaluation team analysis*

Table 3‑2: Energy Savings by Program – Total Electric + Converted Other Fuel + Electrification

| Sector | Program | Ex Ante Gross Savings (kWh) | Verified Gross Realization Rate | Verified Gross Savings (kWh) | NTG\* | Verified Net Savings (kWh) |
| --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 232,510,311 | 1.00 | 233,649,049 | 0.98 | 227,894,346 |
| Business & Public Sector | Incentives | 225,459,978 | 0.94 | 210,902,058 | 0.92 | 194,124,374 |
| Business & Public Sector | Midstream/Upstream | 119,136,906 | 1.19 | 141,750,009 | 0.86 | 122,085,232 |
| Business & Public Sector | Targeted Systems | 99,141,453 | 0.94 | 93,229,625 | 0.86 | 80,090,795 |
| Business & Public Sector | Behavior Bus/Pub | 42,544,332 | 1.00 | 42,520,929 | 1.00 | 42,520,929 |
| Business & Public Sector | New Construction - Bus/Pub | 20,505,218 | 1.01 | 20,659,503 | 0.57 | 11,705,768 |
| Business & Public Sector | Assessments | 2,606,766 | 0.94 | 2,455,483 | 0.94 | 2,309,581 |
| Business & Public Sector | Subtotal | 741,904,963 | 1.00 | 745,166,656 | 0.91 | 680,731,026 |
| Res & IE | Retail/Online | 195,399,090 | 1.56 | 305,310,991 | 0.90 | 273,477,687 |
| Res & IE | Product Distribution | 273,570,963 | 1.12 | 305,259,868 | 1.00 | 305,051,200 |
| Res & IE | Single-Family Upgrades | 13,128,663 | 5.78 | 75,842,748 | 1.00 | 75,772,233 |
| Res & IE | Multifamily Upgrades | 32,489,988 | 1.60 | 52,063,908 | 0.98 | 51,051,571 |
| Res & IE | Contractor / Midstream Rebates | 48,997,257 | 0.80 | 39,013,682 | 0.81 | 31,445,631 |
| Res & IE | New Construction - IE | 2,790,345 | 1.32 | 3,680,143 | 1.00 | 3,680,143 |
| Res & IE | ASI kWh | 877,768 | 1.00 | 877,947 | 0.90 | 791,055 |
| Res & IE | New Construction - Pilot | 1,455,797 | 0.25 | 366,574 | 0.90 | 328,978 |
| Res & IE | Behavior - Res/IE | 0 |  | 0 |  | 82,505,806 |
| Res & IE | Subtotal | 568,709,871 | 1.38 | 782,415,862 | 1.05 | 824,104,304 |
| Pilot | Industrial Energy Management Information Systems | 1,734,366 | 0.95 | 1,653,013 | 0.80 | 1,322,410 |
| Pilot | Heat Pump Water Heater Pilot | 140,821 | 0.18 | 25,545 | 0.80 | 20,436 |
| Pilot | Subtotal | 1,875,187 | 0.90 | 1,678,558 | 0.80 | 1,342,847 |
| Market Transformation | ENERGY STAR Retail Products Platform | 3,460,734 | 3.25 | 11,243,046 | 1.00 | 11,243,046 |
| Market Transformation | Subtotal | 3,460,734 | 3.25 | 11,243,046 | 1.00 | 11,243,046 |
| Voltage Optimization | Voltage Optimization | 68,604,187 | 1.01 | 68,991,654 | 1.00 | 68,991,654 |
| Voltage Optimization | Subtotal | 68,604,187 | 1.01 | 68,991,654 | 1.00 | 68,991,654 |
| Portfolio | Grand Total | 1,384,554,942 | 1.16 | 1,609,495,776 | 0.99 | 1,586,412,876 |

Note: Programs that verified gross and net kWh savings include carryover savings are Midstream/Upstream, Retail Online, Small Business, Single Family Upgrades, and Product Distribution.  
\* The ex ante are direct electric savings plus total converted gas and electrification (fuel switch) savings. The verified savings are direct electric savings plus counted converted gas and electrification savings.  
† The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
Guidehouse calculated the portfolio NTG ratio by dividing the total net savings by the total verified gross savings.  
‡ Program did not report ex ante gross savings, and thus the evaluation did not calculate verified gross savings but only verified net savings.  
*Source: Evaluation team analysis*

Table 3‑3 breaks down the Res/IE programs and show IE programs savings, including savings from electric, other fuel counted and electrification savings.

Table 3‑3: Energy Savings by IE Program – Total Electric + Converted Other Fuel + Electrification

| Sector | Program | Ex Ante Gross Savings (kWh) | Verified Gross Realization Rate | Verified Gross Savings (kWh) | NTG\* | Verified Net Savings (kWh) |
| --- | --- | --- | --- | --- | --- | --- |
| Res & IE | Product Distribution | 273,570,963 | 1.10 | 299,685,612 | 1.00 | 299,685,612 |
| Res & IE | Retail/Online | 195,399,090 | 1.03 | 200,782,888 | 0.99 | 198,585,160 |
| Res & IE | Single-Family Upgrades | 13,128,663 | 5.73 | 75,275,172 | 1.00 | 75,275,172 |
| Res & IE | Multifamily Upgrades | 32,489,988 | 1.43 | 46,368,618 | 0.99 | 45,688,909 |
| Res & IE | New Construction - IE | 2,790,345 | 1.32 | 3,680,143 | 1.00 | 3,680,143 |
| Res & IE | Subtotal | 517,379,049 | 1.21 | 625,792,434 | 1.00 | 622,914,998 |
| Portfolio | Grand Total | 517,379,049 | 1.21 | 625,792,434 | 1.00 | 622,914,998 |

Note: Programs that verified gross and net kWh savings include carryover savings are Midstream/Upstream, Retail Online, and Product Distribution.  
\* The ex ante are direct electric savings plus total converted other fuel and electrification (fuel switch) savings. The verified savings are direct electric savings plus counted converted gas and electrification savings.  
† The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
Guidehouse calculated the portfolio NTG ratio by dividing the total net savings by the total verified gross savings.  
*Source: Evaluation team analysis*

Table 3‑4 breaks down the programs that had carryover electric and peak demand savings from measures sold or incented in CY2021 and CY2022 that were installed in CY2023.

Table 3‑4: Carryover Energy Savings by Program

| Savings Type | Sector | Program | Verified Gross Carryover | NTG\* | Verified Net Carryover |
| --- | --- | --- | --- | --- | --- |
| Energy (kWh) | Business & Public Sector | Midstream/Upstream | 28,569,820 | 0.78 | 22,373,371 |
| Energy (kWh) | Business & Public Sector | Small Business | 1,094,017 | 0.97 | 1,056,219 |
| Energy (kWh) | Res & IE | Product Distribution | 25,241,792 | 1.00 | 25,172,528 |
| Energy (kWh) | Res & IE | Retail/Online | 51,288,514 | 0.60 | 30,946,120 |
| Energy (kWh) | Res & IE | Single-Family Upgrades | 133,185 | 0.84 | 111,751 |
| Energy (kWh) | Portfolio | Total | 106,327,329 | 0.75 | 79,659,988 |
| Peak Demand (kW) | Business & Public Sector | Midstream/Upstream | 6,551 | 0.78 | 5,132 |
| Peak Demand (kW) | Business & Public Sector | Small Business | 269 | 0.97 | 260 |
| Peak Demand (kW) | Res & IE | Product Distribution | 2,963 | 1.00 | 2,956 |
| Peak Demand (kW) | Res & IE | Retail/Online | 6,617 | 0.60 | 3,950 |
| Peak Demand (kW) | Res & IE | Single-Family Upgrades | 18 | 0.84 | 15 |
| Peak Demand (kW) | Portfolio | Total | 16,418 | 0.75 | 12,312 |

\* The program-level NTG values shown 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
*Source: Evaluation team analysis*

Table 3‑5 shows total summer peak demand savings by program.

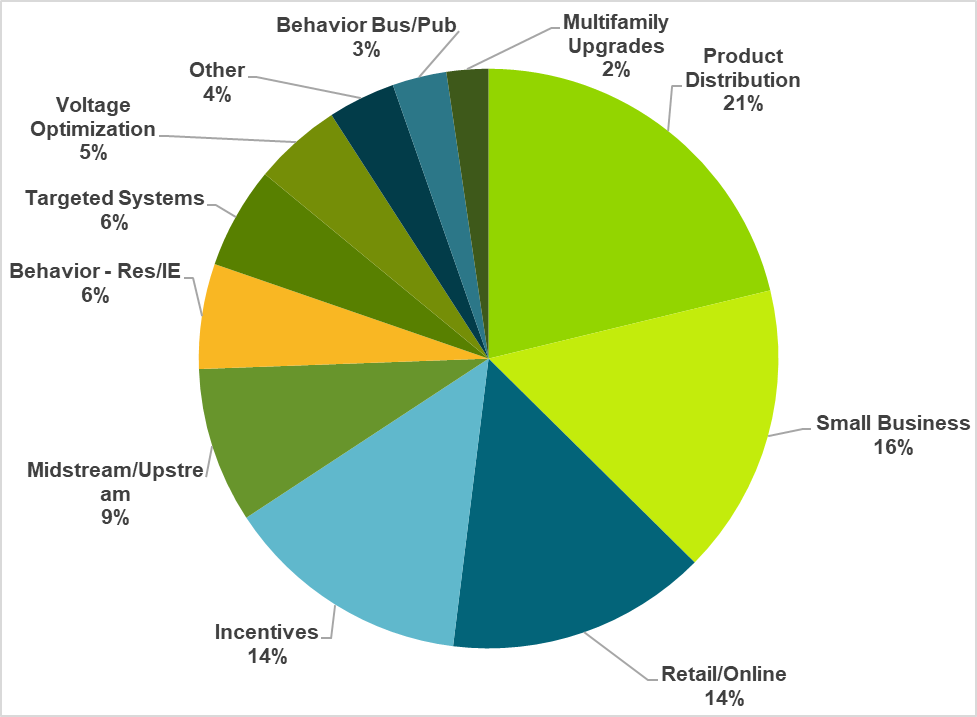
Table 3‑5: Summer Peak Demand Savings by Program

| Sector | Program | Ex Ante Gross Savings (kW) | Verified Gross Realization Rate | Verified Gross Savings (kW) | NTG\* | Verified Net Savings (kW) |
| --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 44,719 | 1.01 | 44,991 | 0.98 | 43,888 |
| Business & Public Sector | Incentives | 40,640 | 0.96 | 38,914 | 0.94 | 36,575 |
| Business & Public Sector | Midstream/Upstream | 25,674 | 1.26 | 32,425 | 0.86 | 27,905 |
| Business & Public Sector | Targeted Systems | 8,024 | 1.28 | 10,260 | 0.84 | 8,571 |
| Business & Public Sector | New Construction - Bus/Pub | 2,400 | 1.00 | 2,402 | 0.61 | 1,462 |
| Business & Public Sector | Assessments | 0 | 0.00 | 0 | 0.00 | 0 |
| Business & Public Sector | Behavior Bus/Pub | 0 | 0.00 | 0 | 0.00 | 0 |
| Business & Public Sector | Subtotal | 121,456 | 1.06 | 128,992 | 0.92 | 118,401 |
| Res & IE | Product Distribution | 35,258 | 1.03 | 36,248 | 1.00 | 36,233 |
| Res & IE | Retail/Online | 97,906 | 0.29 | 28,216 | 0.86 | 24,235 |
| Res & IE | Single-Family Upgrades | 2,608 | 1.01 | 2,625 | 1.00 | 2,612 |
| Res & IE | Multifamily Upgrades | 2,351 | 1.02 | 2,408 | 0.98 | 2,367 |
| Res & IE | Contractor / Midstream Rebates | 1,951 | 0.93 | 1,815 | 0.81 | 1,468 |
| Res & IE | ASI kWh | 419 | 1.00 | 420 | 0.90 | 377 |
| Res & IE | New Construction - IE | 168 | 0.95 | 159 | 1.00 | 159 |
| Res & IE | New Construction - Pilot | 49 | 0.85 | 42 | 0.90 | 37 |
| Res & IE | Behavior - Res/IE | 0 | 0.00 | 0 | 0.00 | 14,241 |
| Res & IE | Subtotal | 140,710 | 0.51 | 71,932 | 1.14 | 81,729 |
| Pilot | Heat Pump Water Heater Pilot | 7 | 0.16 | 1 | 0.80 | 1 |
| Pilot | Industrial Energy Management Information Systems | 0 | 0.00 | 0 | 0.00 | 0 |
| Pilot | Subtotal | 7 | 0.16 | 1 | 0.80 | 1 |
| Market Transformation | ENERGY STAR Retail Products Platform | 0 | 0.00 | 1,434 | 1.00 | 1,434 |
| Market Transformation | Subtotal | 0 | 0.00 | 1,434 | 1.00 | 1,434 |
| Voltage Optimization | Voltage Optimization | 12,366 | 1.01 | 12,456 | 1.00 | 12,456 |
| Voltage Optimization | Subtotal | 12,366 | 1.01 | 12,456 | 1.00 | 12,456 |
| Portfolio | Grand Total | 274,539 | 0.78 | 214,816 | 1.00 | 214,022 |

\* The program-level NTG values shown in this table is 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.](https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/)  
Programs without ex ante gross or verified gross values were excluded from the calculation of the portfolio realization rate and NTG. These programs are typically those where consumption data analysis is used to calculate net savings directly.  
*Source: Evaluation team analysis*

 Figure 3-1 shows energy savings for the CY2023 programs with highest net savings impact.

Figure 3‑1. Net Energy Savings by Program – Electric Only



Source: Evaluation team analysis

Table 3‑6 shows the net savings compared to goal by CY2023 programs.

Table 3‑6: Comparing Electric Net Goals to Actual Achieved by CY2023 Program

| Sector | Program | Verified Net Electric Savings (kWh) | 2023 Original Plan Savings Goal (kWh) | Implementation Plan Savings Goal (kWh) | Verified Net over Original Plan | Verified Net over Implementation Plan |
| --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 226,838,127 | 231,506,667 | 212,542,991 | 0.98 | 1.07 |
| Business & Public Sector | Incentives | 194,124,374 | 207,613,821 | 216,562,302 | 0.94 | 0.90 |
| Business & Public Sector | Midstream/Upstream | 99,711,861 | 78,364,374 | 81,375,059 | 1.27 | 1.23 |
| Business & Public Sector | Targeted Systems | 80,090,795 | 100,730,684 | 92,153,808 | 0.80 | 0.87 |
| Business & Public Sector | Behavior Bus/Pub | 42,520,929 | 41,777,000 | 40,173,627 | 1.02 | 1.06 |
| Business & Public Sector | New Construction - Bus/Pub | 11,705,768 | 11,118,269 | 9,080,630 | 1.05 | 1.29 |
| Business & Public Sector | Assessments | 2,309,581 | 3,729,028 | 4,107,121 | 0.62 | 0.56 |
| Business & Public Sector | Subtotal | 657,301,435 | 674,839,843 | 655,995,538 | 0.97 | 1.00 |
| Res & IE | Product Distribution | 273,408,525 | 222,142,758 | 273,108,740 | 1.23 | 1.00 |
| Res & IE | Retail/Online | 173,691,751 | 175,860,647 | 159,195,200 | 0.99 | 1.09 |
| Res & IE | Behavior - Res/IE | 82,505,806 | 65,212,000 | 63,561,000 | 1.27 | 1.30 |
| Res & IE | Multifamily Upgrades | 32,854,354 | 22,355,358 | 28,360,392 | 1.47 | 1.16 |
| Res & IE | Contractor / Midstream Rebates | 13,059,222 | 2,676,000 | 9,560,000 | 4.88 | 1.37 |
| Res & IE | Single-Family Upgrades | 10,931,245 | 17,666,000 | 13,091,100 | 0.62 | 0.84 |
| Res & IE | New Construction - IE | 1,102,724 | 1,072,000 | 870,000 | 1.03 | 1.27 |
| Res & IE | ASI kWh | 791,055 | - | 1,035,000 |  |  |
| Res & IE | New Construction - Pilot | 328,978 | 1,077,000 | 218,000 | 0.31 | 1.51 |
| Res & IE | Subtotal | 588,673,660 | 508,061,763 | 548,999,432 | 1.16 | 1.07 |
| Pilot | Industrial Energy Management Information Systems | 1,322,410 | - | - |  |  |
| Pilot | Heat Pump Water Heater Pilot | 20,436 | - | - |  |  |
| Pilot | Subtotal | 1,342,847 | - | - |  |  |
| Market Transformation | ENERGY STAR Retail Products Platform | 11,243,046 | - | - |  |  |
| Market Transformation | Subtotal | 11,243,046 | - | - |  |  |
| Voltage Optimization | Voltage Optimization | 68,991,654 | 114,704,000 | 114,704,000 | 0.60 | 0.60 |
| Voltage Optimization | Subtotal | 68,991,654 | 114,704,000 | 114,704,000 | 0.60 | 0.60 |
| Other | Lighting Carryover | 79,659,988 | 53,000,000 | 83,736,000 | 1.50 | 0.95 |
|  | Therm Conversion | 154,685,034 | 154,685,000 | 154,685,000 | 1.00 | 1.00 |
| Other | Electrification | 24,515,212 | 23,540,000 | 25,830,585 | 1.04 | 0.95 |
| Portfolio | Grand Total | 1,586,412,876 | 1,528,830,606 | 1,583,950,555 | 1.04 | 1.00 |

Note: Carryover and therm conversion are in separate rows in this table so sector-level totals will not match tables where they are incorporated in the sector total.  
*Source: Goals values are from the ComEd - CY2023 Q4 Statewide Quarterly Report; ICC approved plan compliance filing (Commission’s Final Order approving the EE Plan. For Section 8-104 programs); evaluation team analysis.*

# Savings by Measure

Lighting measures contributed the most energy and peak demand savings to the portfolio by a substantial margin as shown in the end-use type categories in Table 4‑1, Table Table 4‑2**.**, and Figure 4-1.

Table 4‑1: Energy Savings by Measure Category – Electric Only

| End Use Type | Ex Ante Gross Savings (kWh) | Verified Gross Savings (kWh) | Verified Net Savings (kWh) |
| --- | --- | --- | --- |
| Lighting | 809,444,391 | 910,872,472 | 863,113,263 |
| Other | 236,540,572 | 225,882,838 | 189,306,344 |
| Shell | 78,378,221 | 76,673,793 | 69,959,965 |
| Voltage Optimization | 68,604,187 | 68,991,654 | 68,991,654 |
| HVAC | 51,270,923 | 48,190,031 | 43,995,367 |
| Refrigeration | 28,116,320 | 28,116,483 | 27,352,087 |
| Appliances | 22,181,855 | 28,087,642 | 25,114,881 |
| Consumer Electronics | 21,189,695 | 21,160,028 | 20,896,067 |
| Hot Water | 8,458,970 | 7,909,914 | 7,655,856 |
| EMS & BAS | 8,120,512 | 3,662,094 | 3,259,264 |
| Compressed Air | 3,292,653 | 3,287,758 | 3,197,720 |
| Food Service Equipment | 1,577,532 | 1,647,083 | 1,409,541 |
| Air Compressor | 513,653 | 483,843 | 454,813 |
| Behavior | 0 | 0 | 82,505,806 |
| Grand Total | 1,337,689,485 | 1,424,965,634 | 1,407,212,630 |

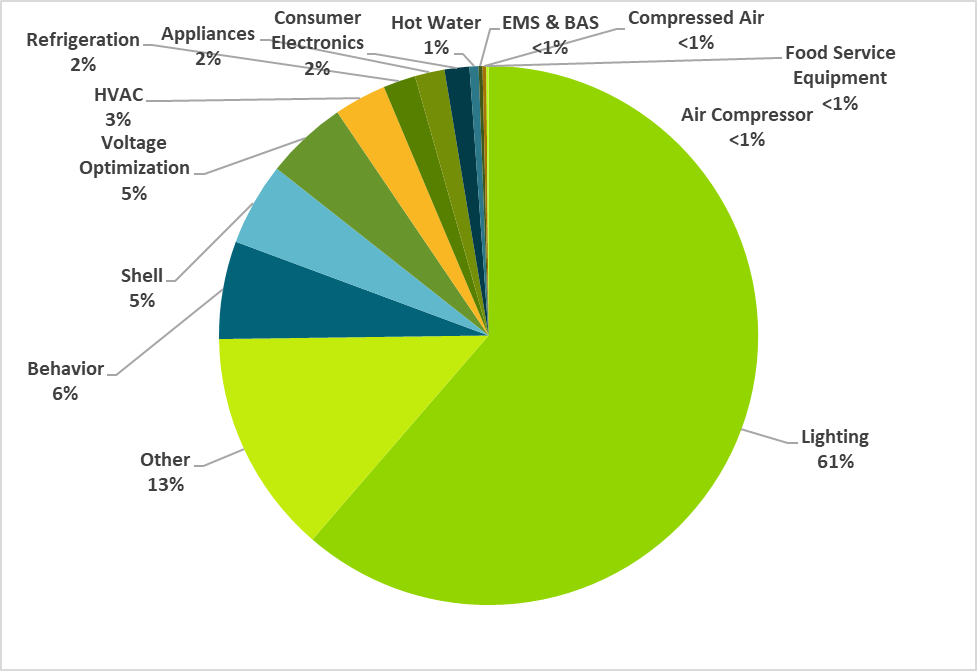
Note: The verified savings in this table include secondary electric energy (kWh) savings from water supply and wastewater treatment plants for measures claimed by ComEd. The verified savings account for electric heating penalties, where applicable.  
*Source: Evaluation team analysis*

Table 4‑2: Summer Peak Demand Savings by Measure Category

| End Use Type | Ex Ante Gross Savings (kW) | Verified Gross Savings (kW) | Verified Net Savings (kW) |
| --- | --- | --- | --- |
| Lighting | 129,883 | 156,908 | 148,364 |
| Other | 19,030 | 20,529 | 15,866 |
| Behavior | 0 | 0 | 14,241 |
| Voltage Optimization | 12,366 | 12,456 | 12,456 |
| HVAC | 8,707 | 8,462 | 7,534 |
| Shell | 93,327 | 4,579 | 4,326 |
| Appliances | 2,657 | 4,068 | 3,592 |
| Refrigeration | 2,714 | 2,714 | 2,641 |
| Consumer Electronics | 2,497 | 2,303 | 2,278 |
| Hot Water | 2,360 | 1,792 | 1,772 |
| Compressed Air | 792 | 790 | 769 |
| Food Service Equipment | 205 | 215 | 182 |
| Grand Total | 274,539 | 214,816 | 214,022 |

Source: Evaluation team analysis

Figure 4‑1. Net Energy Savings by End-use Type – Electric Only



Source: Evaluation team analysis

Table 4‑3 shows the end use measure savings by magnitude of impact in the respective portfolio sector.

Table 4‑3: Energy Savings by Measure Category and Sector

| Sector | End Use Type | Verified Gross Savings-Direct (kWh) | Verified Net Savings-Direct (kWh) | Verified Net Savings (kWh from Therms) | Verified Net Savings (kWh from Electrification) | Verified Net Savings Total (kWh) | Percent Impact |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Lighting | 473,944,026 | 447,645,519 |  |  | 447,645,519 | 0.66 |
| Business & Public Sector | Other | 224,196,422 | 187,954,213 |  |  | 187,954,213 | 0.28 |
| Business & Public Sector | Refrigeration | 27,936,257 | 27,171,860 |  |  | 27,171,860 | 0.04 |
| Business & Public Sector | HVAC | 9,094,050 | 8,807,922 |  |  | 8,807,922 | 0.01 |
| Business & Public Sector | EMS & BAS | 3,662,094 | 3,259,264 |  |  | 3,259,264 | 0.00 |
| Business & Public Sector | Compressed Air | 3,287,758 | 3,197,720 |  |  | 3,197,720 | 0.00 |
| Business & Public Sector | Food Service Equipment | 1,647,083 | 1,409,541 |  |  | 1,409,541 | 0.00 |
| Business & Public Sector | Consumer Electronics | 791,300 | 711,456 |  |  | 711,456 | 0.00 |
| Business & Public Sector | Air Compressor | 483,843 | 454,813 |  |  | 454,813 | 0.00 |
| Business & Public Sector | Hot Water | 123,823 | 118,717 |  |  | 118,717 | 0.00 |
| Business & Public Sector | Subtotal | 745,166,656 | 680,731,026 |  |  | 680,731,026 | 1.00 |
| Res & IE | Lighting | 436,928,447 | 415,467,743 |  |  | 415,467,743 | 50.4% |
| Res & IE | Shell | 76,673,793 | 69,959,965 | 136,503,088 |  | 206,463,054 | 25.1% |
| Res & IE | Behavior | 0 | 82,505,806 |  |  | 82,505,806 | 10.0% |
| Res & IE | HVAC | 39,095,981 | 35,187,445 | 12,141,973 | 24,438,559 | 71,767,977 | 8.7% |
| Res & IE | Consumer Electronics | 20,368,728 | 20,184,611 |  |  | 20,184,611 | 2.4% |
| Res & IE | Appliances | 16,844,596 | 13,871,835 | 102,332 | 41,589 | 14,015,756 | 1.7% |
| Res & IE | Hot Water | 7,760,546 | 7,516,704 | 5,716,295 | 35,065 | 13,268,064 | 1.6% |
| Res & IE | Thermostatic Radiator Valve | 0 | 0 | 221,345 |  | 221,345 | 0.0% |
| Res & IE | Refrigeration | 180,227 | 180,227 |  |  | 180,227 | 0.0% |
| Res & IE | Other | 33,403 | 29,721 |  |  | 29,721 | 0.0% |
| Res & IE | Subtotal | 597,885,720 | 644,904,058 | 154,685,034 | 24,515,212 | 824,104,304 | 100.0% |
| Pilot | Other | 1,653,013 | 1,322,410 |  |  | 1,322,410 | 98.5% |
| Pilot | Hot Water | 25,545 | 20,436 |  |  | 20,436 | 1.5% |
| Pilot | Subtotal | 1,678,558 | 1,342,847 |  |  | 1,342,847 | 100.0% |
| Market Transformation | Appliances | 11,243,046 | 11,243,046 |  |  | 11,243,046 | 100.0% |
| Market Transformation | Subtotal | 11,243,046 | 11,243,046 |  |  | 11,243,046 | 100.0% |
| Voltage Optimization | Voltage Optimization | 68,991,654 | 68,991,654 |  |  | 68,991,654 | 100.0% |
| Voltage Optimization | Subtotal | 68,991,654 | 68,991,654 |  |  | 68,991,654 | 100.0% |
|  | Total | 1,424,965,634 | 1,407,212,630 | 154,685,034 | 24,515,212 | 1,586,412,876 | 100.0% |

Note: The verified savings in this table include secondary electric energy (kWh) savings from water supply and wastewater treatment plants for measures claimed by ComEd. The verified savings account for electric heating penalties, where applicable.  
\* Percent impact represent the verified net savings total contribution of each end-use within the sector, expressed in percentage. Where applicable, the verified net savings totals include electric kWh plus converted kWh that ComEd can claim towards goal.  
*Source: Evaluation team analysis*

Nine (9) programs include measures that save water. That reduction in water produces secondary kWh savings from water supply and wastewater treatment. Table 4‑4 shows the secondary measure level savings by program. The savings in this table are included within the electricity savings in the previous tables in this section.

Table 4‑4: Secondary Energy Savings from Water Reduction by Measure – Electric Only

| Sector | Program | End Use Type | Savings Category | Ex Ante Annual Water Savings (gallons) | Verified Annual Water Savings (gallons) | Ex Ante Gross Savings (kWh) | Verified Gross Realization Rate (RRwater) | Verified Gross Savings (kWh) | NTG\* | Verified Net Savings (kWh) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | Hot Water | Low Flow Showerhead | 359,145 | 359,145 | 1,799 | 1.00 | 1,799 | 0.97 | 1,745 |
| Business & Public Sector | Small Business | Hot Water | Kitchen & Bathroom Faucet Aerator | 296,967 | 296,967 | 1,488 | 1.00 | 1,488 | 0.97 | 1,448 |
| Business & Public Sector | Midstream/Upstream | Food Service Equipment | Dishwasher | 264,204 | 404,460 | 1,324 | 1.53 | 2,026 | 0.85 | 1,731 |
| Business & Public Sector | Midstream/Upstream | Food Service Equipment | Steam Cooker | 767,903 | 657,450 | 1,974 | 0.86 | 1,690 | 0.87 | 1,465 |
| Business & Public Sector |  | Subtotal |  | 1,688,218 | - | 6,585 | 1.06 | 7,004 | 0.91 | 6,389 |
| Res & IE | Multifamily Upgrades | Hot Water | Low Flow Showerhead | 1,901,347 | 1,913,674 | - | - | 9,588 | 1.00 | 9,601 |
| Res & IE | Multifamily Upgrades | Hot Water | Shower Timer | 956,003 | 956,003 | - | - | 4,790 | 0.99 | 4,720 |
| Res & IE | Multifamily Upgrades | Hot Water | Kitchen & Bathroom Faucet Aerator | 788,522 | 790,626 | - | - | 3,961 | 1.00 | 3,980 |
| Res & IE | New Construction - IE | Hot Water | Hot Water Conservation | 1,928,561 | 1,928,561 | 5,767 | 1.00 | 5,767 | 1.00 | 5,767 |
| Res & IE | New Construction - IE | Appliances | Efficient Appliances | 417,252 | 392,404 | 1,276 | 0.94 | 1,200 | 1.00 | 1,200 |
| Res & IE | New Construction - Pilot | Hot Water | Hot Water Conservation | 564,296 | 568,163 | 2,827 | 1.01 | 2,846 | 0.90 | 2,555 |
| Res & IE | New Construction - Pilot | Appliances | Efficient Appliances | 129,956 | 129,956 | 651 | 1.00 | 651 | 0.90 | 584 |
| Res & IE | Product Distribution | Hot Water | Shower Timer | 60,121,121 | 61,500,216 | - | - | 308,119 | 1.00 | 308,119 |
| Res & IE | Product Distribution | Hot Water | Low Flow Showerhead | 58,759,098 | 60,788,056 | - | - | 304,548 | 1.00 | 304,548 |
| Res & IE | Product Distribution | Hot Water | Kits | 24,104,983 | 24,104,970 | - | - | 120,761 | 1.00 | 120,761 |
| Res & IE | Product Distribution | Hot Water | Kitchen & Bathroom Faucet Aerator | 22,532,771 | 27,127,032 | - | - | 135,906 | 1.00 | 135,906 |
| Res & IE | Retail/Online | Hot Water | Low Flow Showerhead | 2,377 | 77,125,057 | 12 | 32,442 | 386,397 | 0.86 | 331,302 |
| Res & IE | Retail/Online | Appliances | Clothes Washer | 29,572,937 | 36,853,091 | 148,160 | 1.25 | 184,635 | 0.68 | 125,381 |
| Res & IE | Retail/Online | Food Service Equipment | Dishwasher | - | 4,661 | - | - | 23 | 0.62 | 14 |
| Res & IE | Retail/Online | Hot Water | Kitchen & Bathroom Faucet Aerator | 2,377 | 2,787 | 12 | 1.17 | 14 | 0.80 | 11 |
| Res & IE | Single-Family Upgrades | Hot Water | Kitchen & Bathroom Faucet Aerator | 5,627,682 | 9,936,865 | 28,196 | 1.77 | 49,786 | 1.01 | 50,275 |
| Res & IE | Single-Family Upgrades | Hot Water | Low Flow Showerhead | 3,887,558 | 6,391,439 | 19,477 | 1.64 | 32,022 | 1.01 | 32,358 |
| Res & IE | Single-Family Upgrades | Hot Water | Other Faucet Aerators & Showerheads | 2,029,734 | 4,340,831 | 10,062 | 2.14 | 21,563 | 1.00 | 21,563 |
| Res & IE | Single-Family Upgrades | Hot Water | Shower Flow Reducer | 197,936 | 336,758 | - | - | - | - | - |
| Res & IE | Single-Family Upgrades | Hot Water | Advanced Thermostat | 2,119 | - | - | - | - | - | - |
| Res & IE | Single-Family Upgrades | Appliances | Clothes Washer | 66,712 | 66,886 | - | - | - | - | - |
| Res & IE |  | Subtotal |  | 213,593,345 | 0 | 216,441 | 7.27 | 1,572,577 | 0.93 | 1,458,646 |
| Market Transformation | ENERGY STAR Retail Products Platform | ESRPP | Clothes Washer | 0 | 53,395,600 | 0 |  | 267,512 | 1.00 | 267,512 |
| Market Transformation |  | Subtotal |  |  |  |  |  | 267,512 | 1.00 | 267,512 |
| Portfolio |  | Total |  | 215,281,563 | 370,371,658 | 223,026 | 8.28 | 1,847,092 | 0.94 | 1,732,547 |

Note: The savings in this table reflect only secondary electric energy (kWh) savings from water supply and wastewater treatment plants for measures claimed by ComEd, not those claimed by gas utilities.  
\* A deemed value. Source is to be found on the IL SAG web site here: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2023>.  
Source: ComEd tracking data and evaluation team analysis

# Total Resource Cost Savings and Lifetime Savings Summary

Table 5‑1 provides the WAML and estimated lifetime savings from the verified first year gross and net savings (excluding converted other fuel savings measures). It includes the total cost by program and cost per unit. Table 5‑2 shows the Total Resource Cost (TRC) input table. It includes only the cost-effectiveness analysis savings inputs.

Table 5‑1: Verified First Year and Lifetime Savings and Acquisition Costs – Electric Only

| Sector | Program | Verified Gross Realization Rate | First Year Annual Energy Savings (kWh) - Gross | First Year Peak Demand Savings (kW) - Gross | NTG\* | First Year Annual Energy Savings (kWh) - Net | First Year Peak Demand Savings (kW) - Net | Lifetime Savings (kWh) - Net | First Year Cost per First year Net Annual Savings | First Year Cost per Net Lifetime Savings | Program Costs | Units# | Units Definition | Weighted Average Measure Life |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Small Business | 1.00 | 233,649,049 | 44,991 | 0.98 | 227,894,346 | 43,888 | 3,123,803,369 | 0.39 | 0.03 | 89,023,653 | 5,827 | Projects | 13.1 |
| Business & Public Sector | Incentives | 0.94 | 210,902,058 | 38,914 | 0.92 | 194,124,374 | 36,575 | 2,698,795,163 | 0.37 | 0.03 | 71,070,462 | 2,702 | Projects | 14.2 |
| Business & Public Sector | Midstream/Upstream | 1.26 | 141,750,009 | 32,425 | 0.86 | 122,085,232 | 27,905 | 1,566,918,012 | 0.15 | 0.01 | 17,928,529 | 1,362,077 | Measures | 13.1 |
| Business & Public Sector | Targeted Systems | 0.94 | 93,229,625 | 10,260 | 0.86 | 80,090,795 | 8,571 | 610,938,843 | 0.37 | 0.05 | 29,656,739 | 703 | Projects | 7.7 |
| Business & Public Sector | Behavior Bus/Pub | 1.00 | 42,520,929 |  | 1.00 | 42,520,929 |  | 297,646,503 | 0.19 | 0.03 | 8,247,989 | 76 | Projects | 7.0 |
| Business & Public Sector | New Construction - Bus/Pub | 1.01 | 20,659,503 | 2,402 | 0.57 | 11,705,768 | 1,462 | 203,680,366 | 0.38 | 0.02 | 4,397,303 | 87 | Projects | 17.4 |
| Business & Public Sector | Assessments | 0.94 | 2,455,483 |  | 0.94 | 2,309,581 |  | 8,316,215 | 0.53 | 0.15 | 1,225,003 | 62 | Projects | 3.6 |
| Business & Public Sector | Subtotal | 1.01 | 745,166,656 | 128,992 | 0.91 | 680,731,026 | 118,401 | 8,510,098,471 | 0.33 | 0.03 | 221,549,678 | 1,371,534 |  | 12.5 |
| Res & IE | Product Distribution | 1.09 | 298,789,722 | 36,248 | 1.00 | 298,581,053 | 36,233 | 2,415,609,366 | 0.06 | 0.01 | 18,758,046 | 5,752,892 | Measures | 8.8 |
| Res & IE | Retail/Online | 1.21 | 236,471,174 | 28,216 | 0.87 | 204,637,870 | 24,235 | 2,145,742,517 | 0.15 | 0.01 | 29,852,090 | 3,619,570 | Measures | 13.1 |
| Res & IE | Multifamily Upgrades | 1.09 | 33,203,428 | 2,408 | 0.99 | 32,854,354 | 2,367 | 423,890,933 | 1.02 | 0.08 | 33,348,798 | 7,477,008 | Measures | 15.0 |
| Res & IE | Contractor / Midstream Rebates | 0.97 | 15,960,640 | 1,815 | 0.82 | 13,059,221 | 1,468 | 171,331,318 | 0.26 | 0.02 | 3,384,067 | 8,839 | Measures | 16.0 |
| Res & IE | Single-Family Upgrades | 1.02 | 11,113,511 | 2,625 | 0.99 | 11,042,996 | 2,612 | 115,118,698 | 2.76 | 0.27 | 30,520,118 | 6,171,963 | Measures | 18.3 |
| Res & IE | New Construction - IE | 1.15 | 1,102,724 | 159 | 1.00 | 1,102,724 | 159 | 17,520,340 | 0.92 | 0.06 | 1,018,151 | 408,734 | Measures | 15.4 |
| Res & IE | ASI kWh | 1.00 | 877,947 | 420 | 0.90 | 791,055 | 377 | 15,115,464 |  |  |  |  |  | 20.0 |
| Res & IE | New Construction - Pilot | 1.52 | 366,574 | 42 | 0.90 | 328,978 | 37 | 4,401,582 | 0.62 | 0.05 | 205,263 | 418 | Measures | 13.4 |
| Res & IE | Behavior - Res/IE |  |  |  |  | 82,505,806 | 14,241 | 292,207,810 | 0.08 | 0.02 | 6,257,036 | 1,434,272 | Household | 10.0 |
| Res & IE | Subtotal | 1.13 | 597,885,720 | 71,932 | 1.08 | 644,904,058 | 81,729 | 5,600,938,028 | 0.19 | 0.02 | 123,343,568 | 24,873,696 |  | 11.2 |
| Pilot | Industrial Energy Management Information Systems | 0.95 | 1,653,013 |  | 0.80 | 1,322,410 |  | 6,612,052 |  |  |  | 4 | Projects | 5.0 |
| Pilot | Heat Pump Water Heater Pilot | 1.09 | 25,545 | 1 | 0.80 | 20,436 | 1 | 306,544 |  |  |  | 33 | Measures | 15.0 |
| Pilot | Subtotal | 0.95 | 1,678,558 | 1 | 0.80 | 1,342,847 | 1 | 6,918,596 | 0.00 | 0.00 | 0 | 37 |  | 5.2 |
| Market Transformation | ENERGY STAR Retail Products Platform | 3.25 | 11,243,046 | 1,434 | 1.00 | 11,243,046 | 1,434 | 158,346,481 |  |  |  | 38,051 | Measures | 14.1 |
| Market Transformation | Subtotal | 3.25 | 11,243,046 | 1,434 | 1.00 | 11,243,046 | 1,434 | 158,346,481 | 0.00 | 0.00 | 0 | 38,051 |  | 14.1 |
| Voltage Optimization | Voltage Optimization | 1.01 | 68,991,654 | 12,456 | 1.00 | 68,991,654 | 12,456 | 1,034,874,812 |  |  |  |  |  | 15.0 |
| Voltage Optimization | Subtotal | 1.01 | 68,991,654 | 12,456 | 1.00 | 68,991,654 | 12,456 | 1,034,874,812 | 0.00 | 0.00 | 0 | 0 |  | 15.0 |
| Portfolio | Grand Total |  | 1,424,965,634 | 214,816 |  | 1,407,212,630 | 214,022 | 15,311,176,388 | 0.25 | 0.02 | 344,893,246 |  |  | 12.2 |

Note: Note: The lifetime net savings are equal to values from the electric CPAS Table 2-3.  
*Source: Cost values are from the ComEd - CY2023 Q4 Statewide Quarterly Report; Evaluation team analysis.*

Table 5‑2: Total Resource Cost Savings Summary

| Sector | Program | WAML (years) | Verified Gross Electric Energy Savings (kWh) | Verified Gross Peak Demand Reduction (kW) | Verified Gross Gas Savings (Therms) | Verified Gross Propane Savings (Therms) | Verified Gross Electrification (Fuel Switch, kWh) | Verified Gross Secondary Savings due to Water Reduction (kWh) | Gross Heating Penalty (kWh)\* | Gross Gas Heating Penalty (Therms)† | Gross Propane Heating Penalty (Therms)† | NTG (kWh) | NTG (kW) | NTG (Therms) | Verified Net Electric Energy Savings (kWh) | Verified Net Peak Demand Reduction (kW) | Verified Net Gas Savings (Therms) | Verified Net Propane Savings (Therms) | Verified Net Electrification (Fuel Switch, kWh) | Net Secondary Savings due to Water Reduction (kWh) | Net Heating Penalty (kWh) | Net Gas Heating Penalty (Therms) | Net Propane Heating Penalty (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business & Public Sector | Incentives | 14.2 | 210,902,058 | 38,914 | 1,220,700 | - |  | - | (722,823) | (1,529,737) | - | 0.92 | 0.94 | 0.00 | 194,124,374 | 36,575 | 1,086,533 | - |  | - | - | (1,503,095) | - |
| Business & Public Sector | Small Business | 13.1 | 233,645,762 | 44,991 | 288,936 | - | - | 3,287 | (474,133) | (2,007,845) | - | 0.98 | 0.98 | 0.00 | 227,891,153 | 43,888 | 286,027 | - | - | 3,194 | (462,572) | (1,959,356) | - |
| Business & Public Sector | Targeted Systems | 7.7 | 93,229,625 | 10,260 | 69,343 | - | - | - | - | - | - | 0.86 | 0.84 | 0.00 | 80,090,795 | 8,571 | 66,224 | - | - | - | - | - | - |
| Business & Public Sector | Midstream/Upstream | 13.1 | 141,746,292 | 32,425 | - | - |  | 3,717 | - | (1,925,606) | - | 0.86 | 0.86 | - | 122,082,037 | 27,905 | - | - |  | 3,196 | - | (1,658,412) | - |
| Business & Public Sector | Behavior Bus/Pub | 7.0 | 42,520,929 | - | - | - | - | - | - | - | - | 1.00 | - | - | 42,520,929 | - | - | - | - | - | - | - | - |
| Business & Public Sector | New Construction - Bus/Pub | 17.4 | 20,659,503 | 2,402 | 10,961 | - | - | - | (68,612) | (10,947) | - | 0.57 | 0.61 | 0.00 | 11,705,768 | 1,462 | 5,704 | - | - | - | (34,331) | (5,692) | - |
| Business & Public Sector | Assessments | 3.6 | 2,455,483 | - | 2,223 | - | - | - | - | - | - | 0.94 | - | 0.01 | 2,309,581 | - | 2,090 | - | - | - | - | - | - |
| Res & IE | Product Distribution | 8.8 | 297,920,388 | 36,248 | 356,734 | - | - | 869,334 | - | (2,862,954) | - | 1.00 | 1.00 | 0.00 | 297,711,719 | 36,233 | 356,734 | - | - | 869,334 | - | (2,860,986) | - |
| Res & IE | Retail/Online | 13.1 | 235,900,105 | 28,216 | 11,747,740 | - | 4,098 | 571,069 | - | (3,215,476) | - | 0.87 | 0.86 | 0.00 | 204,181,161 | 24,235 | 10,352,446 | - | 4,098 | 456,709 | - | (2,771,025) | - |
| Res & IE | Contractor / Midstream Rebates | 16.0 | 15,960,640 | 1,815 | 111,744 | - | 23,041,103 | - | - | - | - | 0.82 | 0.81 | 0.00 | 13,059,221 | 1,468 | 101,518 | - | 18,386,409 | - | - | - | - |
| Res & IE | Multifamily Upgrades | 15.0 | 33,185,090 | 2,408 | 729,509 | - | 2,022,095 | 18,338 | (3,870) | (58,400) | - | 0.99 | 0.98 | 0.00 | 32,836,054 | 2,366 | 700,289 | - | 2,022,095 | 18,301 | (3,870) | (56,791) | - |
| Res & IE | Single-Family Upgrades | 18.3 | 11,010,140 | 2,625 | 2,558,464 | 1,214 | 2,169,530 | 103,371 | (91,899) | (83,693) | (386) | 0.99 | 1.00 | 0.00 | 10,938,800 | 2,612 | 2,548,616 | 1,206 | 2,169,530 | 104,196 | (91,899) | (83,693) | (386) |
| Res & IE | New Construction - IE | 15.4 | 1,095,756 | 159 | 36,728 | - | 1,933,079 | 6,968 | - | (5,926) | - | 1.00 | 1.00 | 0.00 | 1,095,756 | 159 | 36,728 | - | 1,933,079 | 6,968 | - | (5,926) | - |
| Res & IE | New Construction - Pilot | 13.4 | 363,077 | 42 | - | - |  | 3,498 | (2,631) | - | - | 0.90 | 0.90 | - | 325,839 | 37 | - | - |  | 3,139 | (2,361) | - | - |
| Res & IE | ASI kWh | 20.0 | 877,947 | 420 |  | - | - | - | - | - | - | 0.90 | 0.90 | 0.00 | 791,055 | 377 | - | - | - | - | - | - | - |
| Res & IE | Behavior - Res/IE | 10.0 | - | - | - | - | - | - | - | - | - | - | - | - | 82,505,806 | 14,241 | - | - | - | - | - | - | - |
| Pilot | Industrial Energy Management Information Systems | 5.0 | 1,653,013 | - | - | - | - | - | - | - | - | 0.80 | - | - | 1,322,410 | - | - | - | - | - | - | - | - |
| Pilot | Heat Pump Water Heater Pilot | 15.0 | 25,545 | 1 | (22) | - |  | - | (22) | (49) | - | 0.82 | 0.80 | (0.12) | 20,436 | 1 | (17) | - |  | - | (17) | (41) | - |
| Market Transformation | ENERGY STAR Retail Products Platform | 14.1 | 10,975,534 | 1,292 | 70,301 | - | - | 267,512 | - | - | - | 1.00 | 1.00 | 0.00 | 10,975,534 | 1,292 | 70,301 | - | - | 267,512 | - | - | - |
| Voltage Optimization | Voltage Optimization | 15.0 | 68,991,654 | 12,456 | - | - | - | - | - | - | - | 1.00 | 1.00 | - | 68,991,654 | 12,456 | - | - | - | - | - | - | - |
| Total |  | 12.3 | 1,423,118,541 | 214,674 | 17,622,763 | 1,214 | 29,170 | 1,847,092 | (1,363,990) | (11,700,632) | (386) | 0.91 | 0.90 | (0.01) | 1,405,480 | 213,879 | 15,613 | 1,206 | 24,515 | 1,732,547 | (595,050) | (10,905,016) | (386) |

Note: To avoid double counting, the verified gross kWh and net kWh used in the TRC analysis excludes secondary energy savings from water reduction measures. Table 5-2 represents the kWh direct savings from Table 3-1 minus those shown in Table 4-4. Savings from electrification are presented separately in this table and excluded from the direct.  
\* Program kWh savings account for electric heating penalties, where applicable. The electric heating penalties columns show the magnitude of adjustments applied to the program savings.  
† Other Fuel heating penalties represent the program therms heating penalties. These penalties are not required to be applied to the programs or portfolio savings.  
*Source: Evaluation team analysis.*

# High Impact Measures of CY2023

Table 6‑1 through Table 6‑6 provide the list of CY2023 high impact measures and the percentage of verified gross and net electric savings for the business, residential, and income eligible sectors. These tables include converted other fuel savings measures and electrification savings.

Table 6‑1: Summary Table of CY2023 High Impact Measures – Business Gross Impact

| Sector | High Impact Measure | End Use Type | First year kWh Savings (Verified Gross) | Weighted Average Measure Life\* | Verified Gross Savings (kWh from Therms) | Lifetime Gross kWh (Verified) | Verified Gross Savings (kWh Total) | Percent 1st Year kWh | Cumulative Percent |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Business | Interior & Exterior LED Fixtures | Lighting | 241,736,091 | 13.8 | - | 3,478,096,201 | 241,736,091 | 0.30 | 0.30 |
| Business | Standard LED Lamps | Lighting | 144,420,378 | 12.4 | - | 1,783,632,227 | 144,420,378 | 0.18 | 0.47 |
| Business | VO | Voltage Optimization | 68,991,654 | 15.0 | - | 1,034,874,812 | 68,991,654 | 0.08 | 0.56 |
| Business | Other Non-lighting | Other | 57,374,503 | 13.3 | - | 750,742,651 | 57,374,503 | 0.07 | 0.63 |
| Business | Occupancy Sensor & Other Controls | Lighting | 47,718,409 | 14.7 | - | 700,158,584 | 47,718,409 | 0.06 | 0.69 |
| Business | Compressor System | Other | 44,565,878 | 6.8 | - | 301,011,192 | 44,565,878 | 0.05 | 0.74 |
| Business | Strategic Energy Management | Other | 42,520,929 | 7.0 | - | 297,646,503 | 42,520,929 | 0.05 | 0.79 |
| Business | Carryover Lamps | Lighting | 29,663,837 | 10.8 | - | 277,775,460 | 29,663,837 | 0.04 | 0.83 |
| Business | High Performance HVAC Equipment | Other | 27,190,015 | 19.3 | - | 516,766,812 | 27,190,015 | 0.03 | 0.86 |
| Business | Virtual Commissioning | Other | 25,982,085 | 7.3 | - | 189,669,223 | 25,982,085 | 0.03 | 0.90 |
| Business | EC Motor for Cooler or Freezer | Refrigeration | 20,709,245 | 14.3 | - | 296,632,609 | 20,709,245 | 0.03 | 0.92 |
| Business | Freezer & Refrigerator | Other | 10,269,217 | 13.3 | - | 134,576,713 | 10,269,217 | 0.01 | 0.93 |
| Business | Specialty LED Lamps | Lighting | 5,610,410 | 20.0 | - | 112,208,196 | 5,610,410 | 0.01 | 0.94 |
| Business | LED Exit Signs, Channel Sign & Nightlight | Lighting | 4,794,900 | 5.0 | - | 23,974,499 | 4,794,900 | 0.01 | 0.95 |
| Business | Night Covers | Refrigeration | 3,844,796 | 5.0 | - | 19,223,980 | 3,844,796 | 0.00 | 0.95 |
| Business | Weather Stripping | Other | 3,838,380 | 10.0 | - | 38,383,798 | 3,838,380 | 0.00 | 0.96 |
| Business | EMS | EMS & BAS | 3,662,094 | 15.0 | - | 54,931,413 | 3,662,094 | 0.00 | 0.96 |
| Business | Industrial Systems | Other | 3,451,446 | 20.0 | - | 68,998,415 | 3,451,446 | 0.00 | 0.96 |
| Business | HVAC Control System & Maintenance | HVAC | 3,010,186 | 9.3 | - | 28,129,565 | 3,010,186 | 0.00 | 0.97 |
| Business | VFD | Other | 2,735,010 | 15.0 | - | 41,025,148 | 2,735,010 | 0.00 | 0.97 |
| Business | Variable Speed Drive | Compressed Air | 2,251,232 | 13.0 | - | 29,266,017 | 2,251,232 | 0.00 | 0.97 |
| Business | Advanced Thermostat | HVAC | 2,191,372 | 10.5 | - | 23,031,586 | 2,191,372 | 0.00 | 0.98 |
| Business | Anti-Sweat Heater Controls for Glass Door Cooler or Refrigerator | Refrigeration | 2,136,116 | 10.0 | - | 21,361,156 | 2,136,116 | 0.00 | 0.98 |
| Business | Standard LED Lamps | Other | 2,059,510 | 12.4 | - | 30,852,047 | 2,059,510 | 0.00 | 0.98 |
| Business | Building Operator Certification | Other | 1,873,683 | 13.0 | - | 17,275,359 | 1,873,683 | 0.00 | 0.98 |
| Business | Industrial Energy Management Information Systems | Other | 1,653,013 | 5.0 | - | 8,265,065 | 1,653,013 | 0.00 | 0.99 |
| Business | Variable Speed Drive | Other | 1,652,229 | 13.0 | - | 37,428,968 | 1,652,229 | 0.00 | 0.99 |
| Business | Tune-Up | HVAC | 1,445,929 | 3.0 | - | 4,337,786 | 1,445,929 | 0.00 | 0.99 |
| Business | Compressor System | Compressed Air | 1,036,526 | 6.8 | - | 10,587,326 | 1,036,526 | 0.00 | 0.99 |
| Business | Battery Charger | Consumer Electronics | 783,688 | 15.0 | - | 11,755,314 | 783,688 | 0.00 | 0.99 |
| Business | Auto Closer for Walk-in Cooler or Freezer | Refrigeration | 679,752 | 8.0 | - | 5,438,016 | 679,752 | 0.00 | 0.99 |
| Business | Strip Curtain for Walk-In Coolers and Freezers | Refrigeration | 566,348 | 4.0 | - | 2,265,392 | 566,348 | 0.00 | 0.99 |
| Business | Broiler | Food Service Equipment | 514,632 | 12.0 | - | 6,175,588 | 514,632 | 0.00 | 0.99 |
| Business | Room & Central Air Conditioner | HVAC | 487,130 | 15.0 | - | 7,306,944 | 487,130 | 0.00 | 0.99 |
| Business | High Performance HVAC Equipment | HVAC | 486,521 | 19.3 | - | 7,297,813 | 486,521 | 0.00 | 1.00 |
| Business | Compressor System | Air Compressor | 483,843 | 6.8 | - | 1,535,261 | 483,843 | 0.00 | 1.00 |
| Business | Occupancy Sensor & Other Controls | HVAC | 466,286 | 14.7 | - | 3,730,286 | 466,286 | 0.00 | 1.00 |
| Business | Demand Controlled Ventilation | HVAC | 397,769 | 10.0 | - | 3,977,692 | 397,769 | 0.00 | 1.00 |
| Business | Packaged RTU Sealing | HVAC | 338,384 | 5.0 | - | 1,691,918 | 338,384 | 0.00 | 1.00 |
| Business | Deck Ovens | Food Service Equipment | 298,345 | 12.0 | - | 3,580,139 | 298,345 | 0.00 | 1.00 |
| Business | Steam Cooker | Food Service Equipment | 272,270 | 12.0 | - | 3,267,242 | 272,270 | 0.00 | 1.00 |
| Business | Waste Water Treatment | Other | 248,893 | 13.0 | - | 3,235,613 | 248,893 | 0.00 | 1.00 |
| Business | Ice Machine, Fryer, Combination & Convection Ovens | Food Service Equipment | 245,251 | 11.8 | - | 2,885,680 | 245,251 | 0.00 | 1.00 |
| Business | Variable Speed Drive | HVAC | 241,225 | 13.0 | - | 3,618,378 | 241,225 | 0.00 | 1.00 |
| Business | Advanced Power Strips | Other | 179,042 | 7.0 | - | 1,253,291 | 179,042 | 0.00 | 1.00 |
| Business | Freezer & Refrigerator | Food Service Equipment | 160,231 | 13.3 | - | 1,922,766 | 160,231 | 0.00 | 1.00 |
| Business | Non-Fuel Switch Fork Trucks | Other | 144,401 | 15.0 | - | 2,166,017 | 144,401 | 0.00 | 1.00 |
| Business | Process Cooling & Heating | Other | 87,483 | 4.3 | - | 380,026 | 87,483 | 0.00 | 1.00 |
| Business | Griddle | Food Service Equipment | 69,196 | 12.0 | - | 830,354 | 69,196 | 0.00 | 1.00 |
| Business | Dishwasher | Food Service Equipment | 56,598 | 17.9 | - | 976,472 | 56,598 | 0.00 | 1.00 |
| Business | Other Non-lighting | Hot Water | 49,499 | 13.3 | - | 98,999 | 49,499 | 0.00 | 1.00 |
| Business | Low Flow Showerhead | Hot Water | 46,692 | 10.0 | - | 466,924 | 46,692 | 0.00 | 1.00 |
| Business | Kitchen & Bathroom Faucet Aerator | Hot Water | 27,632 | 10.0 | - | 276,316 | 27,632 | 0.00 | 1.00 |
| Business | Process Cooling & Heating | HVAC | 25,395 | 4.3 | - | 126,977 | 25,395 | 0.00 | 1.00 |
| Business | Demand Controlled Ventilation | Food Service Equipment | 23,589 | 10.0 | - | 471,770 | 23,589 | 0.00 | 1.00 |
| Business | Energy Efficient Hand Dryer | Other | 22,844 | 10.0 | - | 228,445 | 22,844 | 0.00 | 1.00 |
| Business | Other Non-lighting | Consumer Electronics | 7,612 | 13.3 | - | 15,720 | 7,612 | 0.00 | 1.00 |
| Business | Hot Food Holding Cabinets | Food Service Equipment | 6,972 | 12.0 | - | 83,661 | 6,972 | 0.00 | 1.00 |
| Business | Notched V Belts for HVAC Systems | HVAC | 3,854 | 3.3 | - | 12,927 | 3,854 | 0.00 | 1.00 |
| Business | High-Performance Windows | Other | 873 | 25.0 | - | 21,823 | 873 | 0.00 | 1.00 |

Note: Cumulative percent is the cumulative sum of percent 1st year kWh achieved by the high impact measure. Percent 1st year kWh is the kWh total for the measure over the sum of kWh total for all measures (electric kWh plus counted kWh converted, where applicable). Business & Public Sector measure list include the Voltage Optimization and the pilot Upstream Commercial Food Service Equipment programs.  
*Source: Evaluation team analysis*

Table 6‑2: Summary Table of CY2023 High Impact Measures – Business Net Impact

| Sector | High Impact Measure | End Use Type | First year kWh Savings (Verified Net) | Verified Net Savings (kWh from Therms) | Verified Net Savings (kWh Total) | Percent 1st Year kWh | Cumulative Percent |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Business | Interior & Exterior LED Fixtures | Lighting | 225,891,287 | - | 225,891,287 | 0.30 | 0.30 |
| Business | Standard LED Lamps | Lighting | 142,908,837 | - | 142,908,837 | 0.19 | 0.49 |
| Business | VO | Voltage Optimization | 68,991,654 | - | 68,991,654 | 0.09 | 0.58 |
| Business | Occupancy Sensor & Other Controls | Lighting | 46,490,419 | - | 46,490,419 | 0.06 | 0.64 |
| Business | Strategic Energy Management | Other | 42,520,929 | - | 42,520,929 | 0.06 | 0.70 |
| Business | Other Non-lighting | Other | 41,454,142 | - | 41,454,142 | 0.06 | 0.76 |
| Business | Compressor System | Other | 35,078,107 | - | 35,078,107 | 0.05 | 0.80 |
| Business | Virtual Commissioning | Other | 24,506,352 | - | 24,506,352 | 0.03 | 0.84 |
| Business | Carryover Lamps | Lighting | 23,429,590 | - | 23,429,590 | 0.03 | 0.87 |
| Business | High Performance HVAC Equipment | Other | 22,047,991 | - | 22,047,991 | 0.03 | 0.90 |
| Business | EC Motor for Cooler or Freezer | Refrigeration | 20,138,961 | - | 20,138,961 | 0.03 | 0.92 |
| Business | Freezer & Refrigerator | Other | 8,708,347 | - | 8,708,347 | 0.01 | 0.93 |
| Business | Specialty LED Lamps | Lighting | 4,592,648 | - | 4,592,648 | 0.01 | 0.94 |
| Business | LED Exit Signs, Channel Sign & Nightlight | Lighting | 4,332,738 | - | 4,332,738 | 0.01 | 0.95 |
| Business | Weather Stripping | Other | 3,738,109 | - | 3,738,109 | 0.00 | 0.95 |
| Business | Night Covers | Refrigeration | 3,733,003 | - | 3,733,003 | 0.00 | 0.96 |
| Business | EMS | EMS & BAS | 3,259,264 | - | 3,259,264 | 0.00 | 0.96 |
| Business | Industrial Systems | Other | 3,071,787 | - | 3,071,787 | 0.00 | 0.97 |
| Business | HVAC Control System & Maintenance | HVAC | 2,917,607 | - | 2,917,607 | 0.00 | 0.97 |
| Business | Variable Speed Drive | Compressed Air | 2,185,768 | - | 2,185,768 | 0.00 | 0.97 |
| Business | Advanced Thermostat | HVAC | 2,149,584 | - | 2,149,584 | 0.00 | 0.97 |
| Business | Anti-Sweat Heater Controls for Glass Door Cooler or Refrigerator | Refrigeration | 2,082,560 | - | 2,082,560 | 0.00 | 0.98 |
| Business | Building Operator Certification | Other | 1,873,683 | - | 1,873,683 | 0.00 | 0.98 |
| Business | VFD | Other | 1,837,489 | - | 1,837,489 | 0.00 | 0.98 |
| Business | Variable Speed Drive | Other | 1,470,484 | - | 1,470,484 | 0.00 | 0.98 |
| Business | Tune-Up | HVAC | 1,410,309 | - | 1,410,309 | 0.00 | 0.99 |
| Business | Industrial Energy Management Information Systems | Other | 1,322,410 | - | 1,322,410 | 0.00 | 0.99 |
| Business | Standard LED Lamps | Other | 1,091,540 | - | 1,091,540 | 0.00 | 0.99 |
| Business | Compressor System | Compressed Air | 1,011,952 | - | 1,011,952 | 0.00 | 0.99 |
| Business | Battery Charger | Consumer Electronics | 704,301 | - | 704,301 | 0.00 | 0.99 |
| Business | Auto Closer for Walk-in Cooler or Freezer | Refrigeration | 664,452 | - | 664,452 | 0.00 | 0.99 |
| Business | Strip Curtain for Walk-In Coolers and Freezers | Refrigeration | 552,885 | - | 552,885 | 0.00 | 0.99 |
| Business | Room & Central Air Conditioner | HVAC | 473,824 | - | 473,824 | 0.00 | 0.99 |
| Business | Compressor System | Air Compressor | 454,813 | - | 454,813 | 0.00 | 0.99 |
| Business | Occupancy Sensor & Other Controls | HVAC | 453,444 | - | 453,444 | 0.00 | 1.00 |
| Business | Broiler | Food Service Equipment | 449,076 | - | 449,076 | 0.00 | 1.00 |
| Business | High Performance HVAC Equipment | HVAC | 423,566 | - | 423,566 | 0.00 | 1.00 |
| Business | Demand Controlled Ventilation | HVAC | 387,573 | - | 387,573 | 0.00 | 1.00 |
| Business | Packaged RTU Sealing | HVAC | 329,713 | - | 329,713 | 0.00 | 1.00 |
| Business | Deck Ovens | Food Service Equipment | 238,676 | - | 238,676 | 0.00 | 1.00 |
| Business | Variable Speed Drive | HVAC | 234,378 | - | 234,378 | 0.00 | 1.00 |
| Business | Steam Cooker | Food Service Equipment | 233,318 | - | 233,318 | 0.00 | 1.00 |
| Business | Ice Machine, Fryer, Combination & Convection Ovens | Food Service Equipment | 212,088 | - | 212,088 | 0.00 | 1.00 |
| Business | Advanced Power Strips | Other | 174,758 | - | 174,758 | 0.00 | 1.00 |
| Business | Waste Water Treatment | Other | 159,492 | - | 159,492 | 0.00 | 1.00 |
| Business | Freezer & Refrigerator | Food Service Equipment | 137,733 | - | 137,733 | 0.00 | 1.00 |
| Business | Non-Fuel Switch Fork Trucks | Other | 115,521 | - | 115,521 | 0.00 | 1.00 |
| Business | Process Cooling & Heating | Other | 82,234 | - | 82,234 | 0.00 | 1.00 |
| Business | Griddle | Food Service Equipment | 60,547 | - | 60,547 | 0.00 | 1.00 |
| Business | Dishwasher | Food Service Equipment | 48,421 | - | 48,421 | 0.00 | 1.00 |
| Business | Other Non-lighting | Hot Water | 46,529 | - | 46,529 | 0.00 | 1.00 |
| Business | Low Flow Showerhead | Hot Water | 45,292 | - | 45,292 | 0.00 | 1.00 |
| Business | Kitchen & Bathroom Faucet Aerator | Hot Water | 26,896 | - | 26,896 | 0.00 | 1.00 |
| Business | Process Cooling & Heating | HVAC | 24,164 | - | 24,164 | 0.00 | 1.00 |
| Business | Demand Controlled Ventilation | Food Service Equipment | 23,589 | - | 23,589 | 0.00 | 1.00 |
| Business | Energy Efficient Hand Dryer | Other | 22,373 | - | 22,373 | 0.00 | 1.00 |
| Business | Other Non-lighting | Consumer Electronics | 7,155 | - | 7,155 | 0.00 | 1.00 |
| Business | Hot Food Holding Cabinets | Food Service Equipment | 6,095 | - | 6,095 | 0.00 | 1.00 |
| Business | Notched V Belts for HVAC Systems | HVAC | 3,759 | - | 3,759 | 0.00 | 1.00 |
| Business | High-Performance Windows | Other | 873 | - | 873 | 0.00 | 1.00 |

Note: Cumulative percent is the cumulative sum of percent 1st year kWh achieved by the high impact measure. Percent 1st year kWh is the kWh total for the measure over the sum of kWh total for all measures (electric kWh, including electrification savings plus counted kWh converted, where applicable). Business & Public Sector measure list include the Voltage Optimization and the pilot Upstream Commercial Food Service Equipment programs.  
*Source: Evaluation team analysis*

Table 6‑3: Summary Table of CY2023 High Impact Measures – Residential Gross Impact

| Sector | High Impact Measure | End Use Type | First year kWh Savings (Verified Gross) | Weighted Average Measure Life\* | Verified Gross Savings (kWh from Therms) | Lifetime Gross kWh (Verified) | Verified Gross Savings (kWh Total) | Percent 1st Year kWh | Cumulative Percent |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Market Rate (Residential) | Carryover Lamps | Lighting | 42,146,021 | 9.5 | - | 269,115,147 | 42,146,021 | 0.25 | 0.25 |
| Market Rate (Residential) | Air Sealing | Shell | 40,255,465 | 20.0 | - | 804,073,578 | 40,255,465 | 0.24 | 0.49 |
| Market Rate (Residential) | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | HVAC | 37,689,924 | 15.9 | - | 536,772,953 | 37,689,924 | 0.22 | 0.72 |
| Market Rate (Residential) | Clothes Washer | Appliances | 12,414,942 | 14.0 | - | 173,809,185 | 12,414,942 | 0.07 | 0.79 |
| Market Rate (Residential) | Advanced Thermostat | HVAC | 9,983,242 | 11.0 | - | 108,897,820 | 9,983,242 | 0.06 | 0.85 |
| Market Rate (Residential) | Interior & Exterior LED Fixtures | Lighting | 4,409,880 | 6.4 | - | 28,091,386 | 4,409,880 | 0.03 | 0.87 |
| Market Rate (Residential) | Air Purifier | Appliances | 3,882,839 | 9.0 | - | 34,945,547 | 3,882,839 | 0.02 | 0.90 |
| Market Rate (Residential) | Dehumidifier | Appliances | 3,309,050 | 12.0 | - | 39,708,602 | 3,309,050 | 0.02 | 0.92 |
| Market Rate (Residential) | Advanced Power Strips | Consumer Electronics | 2,565,928 | 7.0 | - | 17,961,497 | 2,565,928 | 0.02 | 0.93 |
| Market Rate (Residential) | Freezer & Refrigerator | Appliances | 2,368,905 | 15.0 | - | 35,533,739 | 2,368,905 | 0.01 | 0.95 |
| Market Rate (Residential) | Low Flow Showerhead | Hot Water | 1,556,268 | 10.0 | - | 15,562,678 | 1,556,268 | 0.01 | 0.96 |
| Market Rate (Residential) | Standard LED Lamps | Lighting | 1,356,067 | 8.9 | - | 11,341,751 | 1,356,067 | 0.01 | 0.96 |
| Market Rate (Residential) | Room & Central Air Conditioner | HVAC | 780,673 | 18.0 | - | 11,897,978 | 780,673 | 0.00 | 0.97 |
| Market Rate (Residential) | Weather Stripping | Shell | 660,632 | 20.0 | - | 13,212,638 | 660,632 | 0.00 | 0.97 |
| Market Rate (Residential) | Door Sweep | Shell | 641,503 | 20.0 | - | 12,830,058 | 641,503 | 0.00 | 0.98 |
| Market Rate (Residential) | Ventilation Fan | Appliances | 632,679 | 19.0 | - | 12,020,897 | 632,679 | 0.00 | 0.98 |
| Market Rate (Residential) | Shower Timer | Hot Water | 629,236 | 2.0 | - | 1,258,473 | 629,236 | 0.00 | 0.98 |
| Market Rate (Residential) | LED Exit Signs, Channel Sign & Nightlight | Lighting | 531,984 | 8.0 | - | 4,255,869 | 531,984 | 0.00 | 0.99 |
| Market Rate (Residential) | Attic/Wall/Basement /Floor/Foundation Insulation | Shell | 349,105 | 20.0 | - | 6,762,202 | 349,105 | 0.00 | 0.99 |
| Market Rate (Residential) | Clothes Dryer | Appliances | 243,055 | 16.0 | - | 3,888,881 | 243,055 | 0.00 | 0.99 |
| Market Rate (Residential) | Duct Insulation and Sealing | Shell | 209,580 | 20.0 | - | 3,966,615 | 209,580 | 0.00 | 0.99 |
| Market Rate (Residential) | Kitchen & Bathroom Faucet Aerator | Hot Water | 206,100 | 10.0 | - | 2,060,998 | 206,100 | 0.00 | 0.99 |
| Market Rate (Residential) | Other Non-lighting | Other | 165,152 | 5.0 | - | 825,759 | 165,152 | 0.00 | 0.99 |
| Market Rate (Residential) | Gas & HP Water Heater | Hot Water | 119,158 | 15.0 | - | 1,787,371 | 119,158 | 0.00 | 1.00 |
| Market Rate (Residential) | Hot Water Conservation | Hot Water | 81,537 | 10.0 | - | 815,374 | 81,537 | 0.00 | 1.00 |
| Market Rate (Residential) | Air Purifier | Consumer Electronics | 76,413 | 9.0 | - | 687,721 | 76,413 | 0.00 | 1.00 |
| Market Rate (Residential) | Energy Recovery Ventilation | HVAC | 64,698 | 15.0 | - | 970,474 | 64,698 | 0.00 | 1.00 |
| Market Rate (Residential) | Water Heater Temperature Setback | Hot Water | 62,849 | 2.0 | - | 125,698 | 62,849 | 0.00 | 1.00 |
| Market Rate (Residential) | High Performance HVAC Equipment | HVAC | 57,148 | 15.8 | - | 905,352 | 57,148 | 0.00 | 1.00 |
| Market Rate (Residential) | HVAC Control System & Maintenance | HVAC | 50,310 | 11.0 | - | 553,406 | 50,310 | 0.00 | 1.00 |
| Market Rate (Residential) | Reduced Infiltration & Thermal Bridging | Shell | 47,879 | 20.0 | - | 957,584 | 47,879 | 0.00 | 1.00 |
| Market Rate (Residential) | Air Handler Filter Replacement | HVAC | 46,571 | 3.0 | - | 139,712 | 46,571 | 0.00 | 1.00 |
| Market Rate (Residential) | Tune-Up | HVAC | 39,154 | 3.0 | - | 117,461 | 39,154 | 0.00 | 1.00 |
| Market Rate (Residential) | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | Appliances | 31,862 | 15.9 | - | 509,794 | 31,862 | 0.00 | 1.00 |
| Market Rate (Residential) | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | Hot Water | 25,545 | 15.9 | - | 383,180 | 25,545 | 0.00 | 1.00 |
| Market Rate (Residential) | Efficient Appliances | Appliances | 23,466 | 14.0 | - | 311,277 | 23,466 | 0.00 | 1.00 |
| Market Rate (Residential) | Water Dispenser | Appliances | 21,945 | 10.0 | - | 219,450 | 21,945 | 0.00 | 1.00 |
| Market Rate (Residential) | Smart Socket | Other | 19,379 | 7.0 | - | 135,651 | 19,379 | 0.00 | 1.00 |
| Market Rate (Residential) | Duct Insulation and Sealing | HVAC | 18,092 | 20.0 | - | 358,004 | 18,092 | 0.00 | 1.00 |
| Market Rate (Residential) | Motors/Fans/Pumps | HVAC | 17,298 | 19.0 | - | 328,653 | 17,298 | 0.00 | 1.00 |
| Market Rate (Residential) | Other Non-lighting | Consumer Electronics | 17,248 | 6.0 | - | 103,458 | 17,248 | 0.00 | 1.00 |
| Market Rate (Residential) | Advanced Thermostat | Consumer Electronics | 14,562 | 11.0 | - | 196,591 | 14,562 | 0.00 | 1.00 |
| Market Rate (Residential) | Room & Central Air Conditioner | Appliances | 14,144 | 18.0 | - | 169,723 | 14,144 | 0.00 | 1.00 |
| Market Rate (Residential) | Dehumidifier | Consumer Electronics | 13,837 | 12.0 | - | 166,045 | 13,837 | 0.00 | 1.00 |
| Market Rate (Residential) | Electric Dryer | Appliances | 11,471 | 16.0 | - | 183,541 | 11,471 | 0.00 | 1.00 |
| Market Rate (Residential) | Occupancy Sensor & Other Controls | Lighting | 11,185 | 10.0 | - | 111,846 | 11,185 | 0.00 | 1.00 |
| Market Rate (Residential) | Pipe Insulation | Hot Water | 7,748 | 15.0 | - | 116,221 | 7,748 | 0.00 | 1.00 |
| Market Rate (Residential) | Induction Stove | Appliances | 5,187 | 16.0 | - | 82,984 | 5,187 | 0.00 | 1.00 |
| Market Rate (Residential) | Shower Flow Reducer | Hot Water | 2,642 | 10.0 | - | 26,418 | 2,642 | 0.00 | 1.00 |
| Market Rate (Residential) | EV Chargers | Consumer Electronics | 989 | 10.0 | - | 9,890 | 989 | 0.00 | 1.00 |
| Market Rate (Residential) | Bathroom & Kitchen Exhaust Fan | HVAC | 806 | 19.0 | - | 15,318 | 806 | 0.00 | 1.00 |
| Market Rate (Residential) | Dishwasher | Appliances | 488 | 11.0 | - | 5,368 | 488 | 0.00 | 1.00 |
| Market Rate (Residential) | Low Flow Showerhead | Consumer Electronics | 179 | 10.0 | - | 1,790 | 179 | 0.00 | 1.00 |
| Market Rate (Residential) | Behavioral Savings | Behavior | - | #N/A | - | - | - | - | 1.00 |
| Market Rate (Residential) | Specialty LED Lamps | Lighting | - | #N/A | - | - | - | - | 1.00 |

Note: Cumulative percent is the cumulative sum of percent 1st year kWh achieved by the high impact measure. Percent 1st year kWh is the kWh total for the measure over the sum of kWh total for all measures (electric kWh, including electrification savings plus counted kWh converted, where applicable). Market Rate (Residential) measure list include the market transformation program and VSHP as Replacement and Heat Pump Pilot measures.  
*Source: Evaluation team analysis*

Table 6‑4: Summary Table of CY2023 High Impact Measures – Residential Net Impact

| Sector | High Impact Measure | End Use Type | First year kWh Savings (Verified Net) | Verified Net Savings (kWh from Therms) | Verified Net Savings (kWh Total) | Percent 1st Year kWh | Cumulative Percent |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Market Rate (Residential) | Behavioral Savings | Behavior | 82,505,806 | - | 82,505,806 | 0.39 | 0.39 |
| Market Rate (Residential) | Air Sealing | Shell | 33,595,750 | - | 33,595,750 | 0.16 | 0.55 |
| Market Rate (Residential) | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | HVAC | 30,341,094 | - | 30,341,094 | 0.14 | 0.69 |
| Market Rate (Residential) | Carryover Lamps | Lighting | 23,367,654 | - | 23,367,654 | 0.11 | 0.80 |
| Market Rate (Residential) | Clothes Washer | Appliances | 11,724,723 | - | 11,724,723 | 0.06 | 0.85 |
| Market Rate (Residential) | Advanced Thermostat | HVAC | 8,937,153 | - | 8,937,153 | 0.04 | 0.90 |
| Market Rate (Residential) | Interior & Exterior LED Fixtures | Lighting | 4,181,842 | - | 4,181,842 | 0.02 | 0.92 |
| Market Rate (Residential) | Air Purifier | Appliances | 3,250,983 | - | 3,250,983 | 0.02 | 0.93 |
| Market Rate (Residential) | Advanced Power Strips | Consumer Electronics | 2,421,737 | - | 2,421,737 | 0.01 | 0.94 |
| Market Rate (Residential) | Dehumidifier | Appliances | 2,376,248 | - | 2,376,248 | 0.01 | 0.95 |
| Market Rate (Residential) | Freezer & Refrigerator | Appliances | 1,926,463 | - | 1,926,463 | 0.01 | 0.96 |
| Market Rate (Residential) | Low Flow Showerhead | Hot Water | 1,378,737 | - | 1,378,737 | 0.01 | 0.97 |
| Market Rate (Residential) | Standard LED Lamps | Lighting | 1,208,404 | - | 1,208,404 | 0.01 | 0.98 |
| Market Rate (Residential) | Weather Stripping | Shell | 660,632 | - | 660,632 | 0.00 | 0.98 |
| Market Rate (Residential) | Door Sweep | Shell | 641,503 | - | 641,503 | 0.00 | 0.98 |
| Market Rate (Residential) | Room & Central Air Conditioner | HVAC | 635,514 | - | 635,514 | 0.00 | 0.98 |
| Market Rate (Residential) | Shower Timer | Hot Water | 627,439 | - | 627,439 | 0.00 | 0.99 |
| Market Rate (Residential) | Ventilation Fan | Appliances | 449,564 | - | 449,564 | 0.00 | 0.99 |
| Market Rate (Residential) | LED Exit Signs, Channel Sign & Nightlight | Lighting | 445,117 | - | 445,117 | 0.00 | 0.99 |
| Market Rate (Residential) | Attic/Wall/Basement /Floor/Foundation Insulation | Shell | 311,143 | - | 311,143 | 0.00 | 0.99 |
| Market Rate (Residential) | Kitchen & Bathroom Faucet Aerator | Hot Water | 206,815 | - | 206,815 | 0.00 | 0.99 |
| Market Rate (Residential) | Duct Insulation and Sealing | Shell | 198,340 | - | 198,340 | 0.00 | 1.00 |
| Market Rate (Residential) | Clothes Dryer | Appliances | 172,922 | - | 172,922 | 0.00 | 1.00 |
| Market Rate (Residential) | Other Non-lighting | Other | 287,434 | - | 143,717 | 0.00 | 1.00 |
| Market Rate (Residential) | Gas & HP Water Heater | Hot Water | 80,789 | - | 80,789 | 0.00 | 1.00 |
| Market Rate (Residential) | Hot Water Conservation | Hot Water | 73,175 | - | 73,175 | 0.00 | 1.00 |
| Market Rate (Residential) | Water Heater Temperature Setback | Hot Water | 62,849 | - | 62,849 | 0.00 | 1.00 |
| Market Rate (Residential) | Energy Recovery Ventilation | HVAC | 58,063 | - | 58,063 | 0.00 | 1.00 |
| Market Rate (Residential) | Air Purifier | Consumer Electronics | 51,655 | - | 51,655 | 0.00 | 1.00 |
| Market Rate (Residential) | High Performance HVAC Equipment | HVAC | 51,287 | - | 51,287 | 0.00 | 1.00 |
| Market Rate (Residential) | HVAC Control System & Maintenance | HVAC | 45,150 | - | 45,150 | 0.00 | 1.00 |
| Market Rate (Residential) | Reduced Infiltration & Thermal Bridging | Shell | 42,969 | - | 42,969 | 0.00 | 1.00 |
| Market Rate (Residential) | Air Handler Filter Replacement | HVAC | 40,459 | - | 40,459 | 0.00 | 1.00 |
| Market Rate (Residential) | Tune-Up | HVAC | 31,842 | - | 31,842 | 0.00 | 1.00 |
| Market Rate (Residential) | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | Appliances | 26,602 | - | 26,602 | 0.00 | 1.00 |
| Market Rate (Residential) | Efficient Appliances | Appliances | 21,059 | - | 21,059 | 0.00 | 1.00 |
| Market Rate (Residential) | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | Hot Water | 20,436 | - | 20,436 | 0.00 | 1.00 |
| Market Rate (Residential) | Duct Insulation and Sealing | HVAC | 16,061 | - | 16,061 | 0.00 | 1.00 |
| Market Rate (Residential) | Water Dispenser | Appliances | 15,903 | - | 15,903 | 0.00 | 1.00 |
| Market Rate (Residential) | Smart Socket | Other | 15,697 | - | 15,697 | 0.00 | 1.00 |
| Market Rate (Residential) | Motors/Fans/Pumps | HVAC | 15,523 | - | 15,523 | 0.00 | 1.00 |
| Market Rate (Residential) | Other Non-lighting | Consumer Electronics | 11,659 | - | 11,659 | 0.00 | 1.00 |
| Market Rate (Residential) | Room & Central Air Conditioner | Appliances | 11,194 | - | 11,194 | 0.00 | 1.00 |
| Market Rate (Residential) | Occupancy Sensor & Other Controls | Lighting | 10,579 | - | 10,579 | 0.00 | 1.00 |
| Market Rate (Residential) | Advanced Thermostat | Consumer Electronics | 9,844 | - | 9,844 | 0.00 | 1.00 |
| Market Rate (Residential) | Dehumidifier | Consumer Electronics | 9,354 | - | 9,354 | 0.00 | 1.00 |
| Market Rate (Residential) | Electric Dryer | Appliances | 6,998 | - | 6,998 | 0.00 | 1.00 |
| Market Rate (Residential) | Pipe Insulation | Hot Water | 6,198 | - | 6,198 | 0.00 | 1.00 |
| Market Rate (Residential) | Induction Stove | Appliances | 4,310 | - | 4,310 | 0.00 | 1.00 |
| Market Rate (Residential) | Shower Flow Reducer | Hot Water | 2,140 | - | 2,140 | 0.00 | 1.00 |
| Market Rate (Residential) | EV Chargers | Consumer Electronics | 669 | - | 669 | 0.00 | 1.00 |
| Market Rate (Residential) | Bathroom & Kitchen Exhaust Fan | HVAC | 600 | - | 600 | 0.00 | 1.00 |
| Market Rate (Residential) | Dishwasher | Appliances | 303 | - | 303 | 0.00 | 1.00 |
| Market Rate (Residential) | Low Flow Showerhead | Consumer Electronics | 121 | - | 121 | 0.00 | 1.00 |
| Market Rate (Residential) | Specialty LED Lamps | Lighting | - | - | - | - | 1.00 |

Note: Cumulative percent is the cumulative sum of percent 1st year kWh achieved by the high impact measure. Percent 1st year kWh is the kWh total for the measure over the sum of kWh total for all measures (electric kWh, including electrification savings plus counted kWh converted, where applicable). Market Rate (Residential) measure list include the market transformation program and VSHP as Replacement and Heat Pump Pilot measures.  
*Source: Evaluation team analysis*

Table 6‑5: Summary Table of CY2023 High Impact Measures – Income Eligible Gross Impact

| Sector | High Impact Measure | End Use Type | First year kWh Savings (Verified Gross) | Weighted Average Measure Life\* | Verified Gross Savings (kWh from Therms) | Lifetime Gross kWh (Verified) | Verified Gross Savings (kWh Total) | Percent 1st Year kWh | Cumulative Percent |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Income Eligible | Standard LED Lamps | Lighting | 240,372,077 | 8.0 | - | 1,924,466,815 | 240,372,077 | 0.38 | 0.38 |
| Income Eligible | Air Sealing | Shell | 14,198,202 | 20.0 | 78,100,207 | 283,964,045 | 92,298,409 | 0.15 | 0.53 |
| Income Eligible | Omni-Directional LED Lamps | Lighting | 48,375,537 | 7.3 | - | 354,674,132 | 48,375,537 | 0.08 | 0.61 |
| Income Eligible |  | Shell | 1,451,787 | 20.0 | 39,555,535 | 29,035,740 | 41,007,322 | 0.07 | 0.67 |
| Income Eligible | Carryover Lamps | Lighting | 34,384,285 | 9.9 | - | 339,941,713 | 34,384,285 | 0.05 | 0.73 |
| Income Eligible | Specialty LED Lamps | Lighting | 23,843,061 | 7.4 | - | 176,209,710 | 23,843,061 | 0.04 | 0.77 |
| Income Eligible | Attic/Wall/Basement /Floor/Foundation Insulation | Shell | 8,193,797 | 20.0 | 13,295,143 | 163,875,947 | 21,488,940 | 0.03 | 0.80 |
| Income Eligible | Interior & Exterior LED Fixtures | Lighting | 20,645,606 | 7.5 | - | 154,494,540 | 20,645,606 | 0.03 | 0.83 |
| Income Eligible | Advanced Power Strips | Consumer Electronics | 17,611,787 | 7.0 | - | 123,282,508 | 17,611,787 | 0.03 | 0.86 |
| Income Eligible | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | HVAC | 12,513,772 | 15.3 | 3,093,684 | 191,533,729 | 15,607,456 | 0.02 | 0.89 |
| Income Eligible | Decorative & Directional LED Lamps | Lighting | 13,165,355 | 7.1 | - | 93,971,644 | 13,165,355 | 0.02 | 0.91 |
| Income Eligible | Weather Stripping | Shell | 4,665,857 | 20.0 | 4,040,044 | 93,317,143 | 8,705,901 | 0.01 | 0.92 |
| Income Eligible | LED Exit Signs, Channel Sign & Nightlight | Lighting | 6,586,709 | 7.8 | - | 51,534,469 | 6,586,709 | 0.01 | 0.93 |
| Income Eligible | Advanced Thermostat | HVAC | 2,323,374 | 11.9 | 1,767,894 | 27,567,240 | 4,091,269 | 0.01 | 0.94 |
| Income Eligible |  | HVAC | 781,446 | 16.6 | 3,122,653 | 12,993,340 | 3,904,098 | 0.01 | 0.95 |
| Income Eligible | Air Purifier | Appliances | 3,789,862 | 9.0 | - | 34,108,757 | 3,789,862 | 0.01 | 0.95 |
| Income Eligible | Pipe Insulation | Hot Water | 16,710 | 15.0 | 3,514,995 | 250,656 | 3,531,705 | 0.01 | 0.96 |
| Income Eligible | Door Sweep | Shell | 1,848,330 | 20.0 | 912,338 | 36,966,597 | 2,760,668 | 0.00 | 0.96 |
| Income Eligible | High Performance HVAC Equipment | HVAC | 2,200,582 | 13.7 | 439,903 | 30,203,248 | 2,640,485 | 0.00 | 0.97 |
| Income Eligible | Kits | Shell | 1,556,619 | 20.0 | 882,556 | 31,132,379 | 2,439,175 | 0.00 | 0.97 |
| Income Eligible | Low Flow Showerhead | Hot Water | 2,199,165 | 10.0 | - | 21,991,653 | 2,199,165 | 0.00 | 0.97 |
| Income Eligible | Shower Timer | Hot Water | 1,672,122 | 2.0 | - | 3,344,243 | 1,672,122 | 0.00 | 0.98 |
| Income Eligible | Caulk | Shell | 1,433,685 | 20.0 | - | 28,673,690 | 1,433,685 | 0.00 | 0.98 |
| Income Eligible | DHW Controls | Hot Water | - |  | 1,233,122 |  | 1,233,122 | 0.00 | 0.98 |
| Income Eligible |  | Lighting | 993,786 | 7.9 | - | 7,892,246 | 993,786 | 0.00 | 0.98 |
| Income Eligible | High Efficiency Boiler | HVAC | - |  | 939,555 |  | 939,555 | 0.00 | 0.98 |
| Income Eligible | High Efficiency Furnace | HVAC | 60,864 | 20.0 | 861,365 | 1,217,285 | 922,230 | 0.00 | 0.99 |
| Income Eligible | Gas & HP Water Heater | HVAC | 414,097 | 15.0 | 476,737 | 6,211,459 | 890,834 | 0.00 | 0.99 |
| Income Eligible | HVAC Control System & Maintenance | HVAC | 26,849 | 11.0 | 749,027 | 295,338 | 775,876 | 0.00 | 0.99 |
| Income Eligible | Other Non-lighting | Shell | 448,882 | 20.0 | 317,604 | 8,977,649 | 766,487 | 0.00 | 0.99 |
| Income Eligible | Switch and Outlet Gasket | Shell | 448,882 | 20.0 | 317,604 | 8,977,649 | 766,487 | 0.00 | 0.99 |
| Income Eligible | Kitchen & Bathroom Faucet Aerator | Hot Water | 724,806 | 10.0 | - | 7,248,063 | 724,806 | 0.00 | 0.99 |
| Income Eligible | Duct Insulation and Sealing | HVAC | 46,262 | 20.0 | 650,149 | 925,242 | 696,411 | 0.00 | 0.99 |
| Income Eligible | Dehumidifier | Appliances | 460,663 | 12.0 | - | 5,527,959 | 460,663 | 0.00 | 0.99 |
| Income Eligible | IU Ducted ASHP | HVAC | 450,396 | 16.0 | - | 7,206,329 | 450,396 | 0.00 | 0.99 |
| Income Eligible | Freezer & Refrigerator | Appliances | 432,930 | 7.4 | - | 3,190,710 | 432,930 | 0.00 | 0.99 |
| Income Eligible | Reduced Infiltration & Thermal Bridging | Shell | 242,279 | 20.0 | 151,337 | 4,845,581 | 393,616 | 0.00 | 1.00 |
| Income Eligible | Kits | Hot Water | 374,763 | 10.0 | - | 3,747,630 | 374,763 | 0.00 | 1.00 |
| Income Eligible | Hot Water Plant | Hot Water | - |  | 361,162 |  | 361,162 | 0.00 | 1.00 |
| Income Eligible | Room & Central Air Conditioner | HVAC | 350,576 | 14.4 | - | 5,049,374 | 350,576 | 0.00 | 1.00 |
| Income Eligible | Room & Central Air Conditioner | Appliances | 239,367 | 12.0 | - | 2,872,404 | 239,367 | 0.00 | 1.00 |
| Income Eligible | Thermostatic Radiator Valve | Thermostatic Radiator Valve | - |  | 221,345 |  | 221,345 | 0.00 | 1.00 |
| Income Eligible | Freezer & Refrigerator | Refrigeration | 179,353 | 15.0 | - | 2,690,295 | 179,353 | 0.00 | 1.00 |
| Income Eligible |  | Hot Water | 18,471 | 12.8 | 131,356 | 237,348 | 149,828 | 0.00 | 1.00 |
| Income Eligible | Bathroom & Kitchen Exhaust Fan | HVAC | 121,947 | 19.0 | - | 2,316,989 | 121,947 | 0.00 | 1.00 |
| Income Eligible | Ventilation Fan | Appliances | 92,893 | 19.0 | - | 1,764,967 | 92,893 | 0.00 | 1.00 |
| Income Eligible | Clothes Dryer | Appliances | 13,123 | 16.0 | 71,814 | 209,962 | 84,936 | 0.00 | 1.00 |
| Income Eligible | Gas & HP Water Heater | Hot Water | 35,721 | 14.6 | 40,522 | 520,322 | 76,243 | 0.00 | 1.00 |
| Income Eligible | Air Handler Filter Replacement | HVAC | 74,567 | 3.0 | - | 223,700 | 74,567 | 0.00 | 1.00 |
| Income Eligible | High-Performance Windows | Shell | 19,544 | 20.0 | 53,100 | 390,879 | 72,644 | 0.00 | 1.00 |
| Income Eligible | Water Heater Temperature Setback | Hot Water | 65,767 | 2.0 | - | 131,534 | 65,767 | 0.00 | 1.00 |
| Income Eligible | Induction Stove | Appliances | 28,038 | 16.0 | 30,519 | 448,615 | 58,557 | 0.00 | 1.00 |
| Income Eligible | Efficient Appliances | Appliances | 49,709 | 15.3 | - | 760,978 | 49,709 | 0.00 | 1.00 |
| Income Eligible |  | Consumer Electronics | 34,196 | 7.0 | - | 239,372 | 34,196 | 0.00 | 1.00 |
| Income Eligible | Clothes Washer | Appliances | 34,082 | 14.0 | - | 477,151 | 34,082 | 0.00 | 1.00 |
| Income Eligible | VFD | HVAC | 29,603 | 15.0 | - | 444,046 | 29,603 | 0.00 | 1.00 |
| Income Eligible |  | Appliances | 21,778 | 14.2 | - | 308,989 | 21,778 | 0.00 | 1.00 |
| Income Eligible | Motors/Fans/Pumps | HVAC | 17,520 | 19.0 | - | 332,879 | 17,520 | 0.00 | 1.00 |
| Income Eligible | Other Non-lighting | HVAC | 2,076 | 12.0 | 13,802 | 24,982 | 15,878 | 0.00 | 1.00 |
| Income Eligible | Occupancy Sensor & Other Controls | Lighting | 13,700 | 9.7 | - | 132,493 | 13,700 | 0.00 | 1.00 |
| Income Eligible | Variable Speed Drive | HVAC | 11,477 | 15.0 | - | 172,161 | 11,477 | 0.00 | 1.00 |
| Income Eligible | Tune-Up | HVAC | 9,491 | 3.0 | - | 28,474 | 9,491 | 0.00 | 1.00 |
| Income Eligible | Smart Socket | Other | 7,936 | 7.0 | - | 55,554 | 7,936 | 0.00 | 1.00 |
| Income Eligible | Hot Water Conservation | Hot Water | 7,531 | 11.2 | - | 84,697 | 7,531 | 0.00 | 1.00 |
| Income Eligible | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | Appliances | 5,750 | 16.0 | - | 91,998 | 5,750 | 0.00 | 1.00 |
| Income Eligible | Crawl Space Ceiling Insulation | Shell | - |  | 2,902 |  | 2,902 | 0.00 | 1.00 |
| Income Eligible | Shower Flow Reducer | Hot Water | 1,723 | 10.0 | - | 17,233 | 1,723 | 0.00 | 1.00 |
| Income Eligible | Water Dispenser | Appliances | 1,003 | 10.0 | - | 10,032 | 1,003 | 0.00 | 1.00 |
| Income Eligible | Other Non-lighting | Refrigeration | 874 | 5.0 | - | 4,369 | 874 | 0.00 | 1.00 |
| Income Eligible | Weatherization | Shell | 624 | 20.0 | - | 12,482 | 624 | 0.00 | 1.00 |
| Income Eligible | Covers and Gap Sealers for Room AC | HVAC | 386 | 5.0 | - | 1,928 | 386 | 0.00 | 1.00 |
| Income Eligible | Pipe Insulation | HVAC | - |  | 323 |  | 323 | 0.00 | 1.00 |
| Income Eligible | Water Heater Wrap | Hot Water | 123 | 5.0 | - | 616 | 123 | 0.00 | 1.00 |

Note: Cumulative percent is the cumulative sum of percent 1st year kWh achieved by the high impact measure. Percent 1st year kWh is the kWh total for the measure over the sum of kWh total for all measures (electric kWh plus counted kWh converted, where applicable)

*Source: Evaluation team analysis*

Table 6‑6: Summary Table of CY2023 High Impact Measures – Income Eligible Net Impact

| Sector | High Impact Measure | End Use Type | First year kWh Savings (Verified Net) | Verified Net Savings (kWh from Therms) | Verified Net Savings (kWh Total) | Percent 1st Year kWh | Cumulative Percent |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Income Eligible | Standard LED Lamps | Lighting | 240,372,077 | - | 240,372,077 | 0.39 | 0.39 |
| Income Eligible | Air Sealing | Shell | 14,198,202 | 78,049,802 | 92,248,005 | 0.15 | 0.53 |
| Income Eligible | Omni-Directional LED Lamps | Lighting | 48,044,866 | - | 48,044,866 | 0.08 | 0.61 |
| Income Eligible |  | Shell | 1,451,787 | 39,555,535 | 41,007,322 | 0.07 | 0.68 |
| Income Eligible | Carryover Lamps | Lighting | 32,750,993 | - | 32,750,993 | 0.05 | 0.73 |
| Income Eligible | Specialty LED Lamps | Lighting | 23,746,935 | - | 23,746,935 | 0.04 | 0.77 |
| Income Eligible | Interior & Exterior LED Fixtures | Lighting | 20,598,934 | - | 20,598,934 | 0.03 | 0.80 |
| Income Eligible | Attic/Wall/Basement /Floor/Foundation Insulation | Shell | 8,193,797 | 12,219,969 | 20,413,767 | 0.03 | 0.83 |
| Income Eligible | Advanced Power Strips | Consumer Electronics | 17,611,787 | - | 17,611,787 | 0.03 | 0.86 |
| Income Eligible | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | HVAC | 12,513,772 | 3,093,684 | 15,607,456 | 0.03 | 0.89 |
| Income Eligible | Decorative & Directional LED Lamps | Lighting | 13,074,388 | - | 13,074,388 | 0.02 | 0.91 |
| Income Eligible | Weather Stripping | Shell | 4,665,857 | 4,040,044 | 8,705,901 | 0.01 | 0.92 |
| Income Eligible | LED Exit Signs, Channel Sign & Nightlight | Lighting | 6,586,709 | - | 6,586,709 | 0.01 | 0.93 |
| Income Eligible | Pipe Insulation | Hot Water | 16,710 | 4,196,603 | 4,213,314 | 0.01 | 0.94 |
| Income Eligible | Advanced Thermostat | HVAC | 2,323,374 | 1,747,367 | 4,070,741 | 0.01 | 0.95 |
| Income Eligible |  | HVAC | 781,446 | 3,122,653 | 3,904,098 | 0.01 | 0.95 |
| Income Eligible | Air Purifier | Appliances | 3,789,862 | - | 3,789,862 | 0.01 | 0.96 |
| Income Eligible | Door Sweep | Shell | 1,848,330 | 912,338 | 2,760,668 | 0.00 | 0.96 |
| Income Eligible | High Performance HVAC Equipment | HVAC | 2,200,582 | 439,903 | 2,640,485 | 0.00 | 0.97 |
| Income Eligible | Kits | Shell | 1,556,619 | 882,556 | 2,439,175 | 0.00 | 0.97 |
| Income Eligible | Low Flow Showerhead | Hot Water | 2,190,595 | - | 2,190,595 | 0.00 | 0.97 |
| Income Eligible | Shower Timer | Hot Water | 1,667,739 | - | 1,667,739 | 0.00 | 0.98 |
| Income Eligible | Caulk | Shell | 1,433,685 | - | 1,433,685 | 0.00 | 0.98 |
| Income Eligible |  | Lighting | 993,786 | - | 993,786 | 0.00 | 0.98 |
| Income Eligible | High Efficiency Boiler | HVAC | - | 949,756 | 949,756 | 0.00 | 0.98 |
| Income Eligible | High Efficiency Furnace | HVAC | 60,864 | 861,832 | 922,696 | 0.00 | 0.98 |
| Income Eligible | Gas & HP Water Heater | HVAC | 414,097 | 476,737 | 890,834 | 0.00 | 0.99 |
| Income Eligible | HVAC Control System & Maintenance | HVAC | 26,849 | 785,767 | 812,616 | 0.00 | 0.99 |
| Income Eligible | Other Non-lighting | Shell | 448,882 | 317,604 | 766,487 | 0.00 | 0.99 |
| Income Eligible | Switch and Outlet Gasket | Shell | 448,882 | 317,604 | 766,487 | 0.00 | 0.99 |
| Income Eligible | Kitchen & Bathroom Faucet Aerator | Hot Water | 721,313 | - | 721,313 | 0.00 | 0.99 |
| Income Eligible | DHW Controls | Hot Water | - | 707,239 | 707,239 | 0.00 | 0.99 |
| Income Eligible | Duct Insulation and Sealing | HVAC | 46,262 | 650,149 | 696,411 | 0.00 | 0.99 |
| Income Eligible | Dehumidifier | Appliances | 460,663 | - | 460,663 | 0.00 | 0.99 |
| Income Eligible | IU Ducted ASHP | HVAC | 450,396 | - | 450,396 | 0.00 | 0.99 |
| Income Eligible | Freezer & Refrigerator | Appliances | 432,930 | - | 432,930 | 0.00 | 0.99 |
| Income Eligible | Reduced Infiltration & Thermal Bridging | Shell | 242,279 | 151,337 | 393,616 | 0.00 | 1.00 |
| Income Eligible | Kits | Hot Water | 374,763 | - | 374,763 | 0.00 | 1.00 |
| Income Eligible | Hot Water Plant | Hot Water | - | 361,162 | 361,162 | 0.00 | 1.00 |
| Income Eligible | Gas & HP Water Heater | Hot Water | 35,721 | 319,935 | 355,655 | 0.00 | 1.00 |
| Income Eligible | Room & Central Air Conditioner | HVAC | 350,576 | - | 350,576 | 0.00 | 1.00 |
| Income Eligible | Room & Central Air Conditioner | Appliances | 239,367 | - | 239,367 | 0.00 | 1.00 |
| Income Eligible | Thermostatic Radiator Valve | Thermostatic Radiator Valve | - | 221,345 | 221,345 | 0.00 | 1.00 |
| Income Eligible | Freezer & Refrigerator | Refrigeration | 179,353 | - | 179,353 | 0.00 | 1.00 |
| Income Eligible |  | Hot Water | 18,471 | 131,356 | 149,828 | 0.00 | 1.00 |
| Income Eligible | Bathroom & Kitchen Exhaust Fan | HVAC | 121,947 | - | 121,947 | 0.00 | 1.00 |
| Income Eligible | Ventilation Fan | Appliances | 92,893 | - | 92,893 | 0.00 | 1.00 |
| Income Eligible | Clothes Dryer | Appliances | 13,123 | 71,814 | 84,936 | 0.00 | 1.00 |
| Income Eligible | Air Handler Filter Replacement | HVAC | 74,567 | - | 74,567 | 0.00 | 1.00 |
| Income Eligible | High-Performance Windows | Shell | 19,544 | 53,100 | 72,644 | 0.00 | 1.00 |
| Income Eligible | Water Heater Temperature Setback | Hot Water | 65,767 | - | 65,767 | 0.00 | 1.00 |
| Income Eligible | Induction Stove | Appliances | 28,038 | 30,519 | 58,557 | 0.00 | 1.00 |
| Income Eligible | Efficient Appliances | Appliances | 49,709 | - | 49,709 | 0.00 | 1.00 |
| Income Eligible |  | Consumer Electronics | 34,196 | - | 34,196 | 0.00 | 1.00 |
| Income Eligible | Clothes Washer | Appliances | 34,082 | - | 34,082 | 0.00 | 1.00 |
| Income Eligible | VFD | HVAC | 29,603 | - | 29,603 | 0.00 | 1.00 |
| Income Eligible |  | Appliances | 21,778 | - | 21,778 | 0.00 | 1.00 |
| Income Eligible | Motors/Fans/Pumps | HVAC | 17,520 | - | 17,520 | 0.00 | 1.00 |
| Income Eligible | Other Non-lighting | HVAC | 2,076 | 13,802 | 15,878 | 0.00 | 1.00 |
| Income Eligible | Occupancy Sensor & Other Controls | Lighting | 13,700 | - | 13,700 | 0.00 | 1.00 |
| Income Eligible | Variable Speed Drive | HVAC | 11,477 | - | 11,477 | 0.00 | 1.00 |
| Income Eligible | Tune-Up | HVAC | 9,491 | - | 9,491 | 0.00 | 1.00 |
| Income Eligible | Smart Socket | Other | 7,936 | - | 7,936 | 0.00 | 1.00 |
| Income Eligible | Hot Water Conservation | Hot Water | 7,531 | - | 7,531 | 0.00 | 1.00 |
| Income Eligible | Heat Pumps (ASHP, Ductless HP, GSHP, Others) | Appliances | 5,750 | - | 5,750 | 0.00 | 1.00 |
| Income Eligible | Crawl Space Ceiling Insulation | Shell | - | 3,198 | 3,198 | 0.00 | 1.00 |
| Income Eligible | Shower Flow Reducer | Hot Water | 1,723 | - | 1,723 | 0.00 | 1.00 |
| Income Eligible | Water Dispenser | Appliances | 1,003 | - | 1,003 | 0.00 | 1.00 |
| Income Eligible | Other Non-lighting | Refrigeration | 874 | - | 874 | 0.00 | 1.00 |
| Income Eligible | Weatherization | Shell | 624 | - | 624 | 0.00 | 1.00 |
| Income Eligible | Covers and Gap Sealers for Room AC | HVAC | 386 | - | 386 | 0.00 | 1.00 |
| Income Eligible | Pipe Insulation | HVAC | - | 323 | 323 | 0.00 | 1.00 |
| Income Eligible | Water Heater Wrap | Hot Water | 123 | - | 123 | 0.00 | 1.00 |

Note: Cumulative percent is the cumulative sum of percent 1st year kWh achieved by the high impact measure. Percent 1st year kWh is the kWh total for the measure over the sum of kWh total for all measures (electric kWh plus counted kWh converted, where applicable).  
*Source: Evaluation team analysis*

1. For 2023, Guidehouse identified some measures where it was possible to confirm the gas companies were not also claiming gas savings (e.g., they did not claim gas savings on clothes washers, ductless mini-split heat pumps, and EMS). There were other measures where the ComEd joint program data indicated the percentage of gas savings claimed by ComEd or by gas utilities (e.g., Kitchen DCV, programmable thermostats, water measures, air sealing and pipe insulation). Those measures and gas savings were confirmed by Guidehouse to have no potential double counting from the gas utilities’ data and were included in the sorting process to determine the gas savings counted in the calculation of the savings ComEd can claim toward goal. [↑](#footnote-ref-1)
2. ComEd-CY2023-Q4-Statewide-Quarterly-Report. [↑](#footnote-ref-2)
3. CEJA Statute: 220 ILCS 5/8-103B(g)(7.5). Section 8-103B. The 2023 applicable annual total savings is estimated as the summary of applicable annual incremental goal which is the difference in the 2023 CPAS Statutory Goal (11,952,076 MWh) and the 2022 CPAS Statutory Goal (10,981,533 MWh), plus the expiring legacy savings and expiring historic savings; ComEd-CY2023-Q4-Statewide-Quarterly-Report. [↑](#footnote-ref-3)
4. ComEd-CY2023-Q4-Statewide-Quarterly-Report [↑](#footnote-ref-4)
5. For CY2023, legacy savings are estimated by multiplying statutory 2023 CPAS Legacy Savings percent (3.1%) by ComEd Baseline - 2014-2016 Average Annual Sales Less Exempt Customers MWh value of 83,000.528. [↑](#footnote-ref-5)
6. Historic incremental expiring savings are equal to Historic CPAS Yn-1 – Historic CPAS Yn. [↑](#footnote-ref-6)
7. Other fuel savings are converted to kWh by multiplying therms by 29.31 (which is based on 100,000 Btu/therm and 3,412 Btu/kWh). [↑](#footnote-ref-7)
8. 6,129 (25%) + 18,386 (75%) = 24,515 (100%) [↑](#footnote-ref-8)
9. CEJA Statute: 220 ILCS 5/8-103B(g)(7.5). Section 8-103B. [↑](#footnote-ref-9)
10. Not all programs have measures (for example New Construction). In these cases, the EUL is aggregated from whatever level program savings are reported at (e.g. building, project, etc.). [↑](#footnote-ref-10)
11. EUL values are either provided in the TRM or through Guidehouse research. [↑](#footnote-ref-11)