



Energy Efficiency / Demand Response Plan: Program Year 2019 (CY2019) (1/1/2019-12/31/2019)

Presented to ComEd

FINAL

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Prepared by:

Jake Fuller EcoMetric Consulting

Arturo Romero
EcoMetric Consulting

Mike Frischmann EcoMetric Consulting



www.guidehouse.com



Submitted to:

ComEd 2011 Swift Drive Oak Brook, IL 60523

Submitted by:

Guidehouse (which acquired Navigant in 2019) 150 N. Riverside Plaza, Suite 2100 Chicago, IL 60606

Contact:

Randy Gunn, Partner 312.583.5714 randy.gunn@guidehouse.com

Jeff Erickson, Director 608.616.4962 jeff.erickson@guidehouse.com Patricia Plympton, Associate Director 202.253.9356 patricia.plympton@guidehouse.com

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1. Introduction

This report presents the results of the impact evaluation of ComEd's CY2019 Food Bank LED Distribution Program. It includes a summary of the energy and demand impacts for the total program broken out by relevant measure and program structure details. The appendix provides the impact analysis methodology and details of the Total Resource Cost inputs. CY2019 covers January 1, 2019 through December 31, 2019.

The evaluation team reviewed the default per-unit savings assumptions used to calculate savings from CY2019 eligible measures.

2. PROGRAM DESCRIPTION

The Food Bank LED Distribution Program provides packages of ENERGY STAR certified LEDs and Advanced Power Strips (APS) to select Feeding America food banks. The food banks use their network of local food pantries within ComEd's service territory to distribute the bulbs to utility customers. The LEDs and APSs are distributed at no cost to the food banks, food pantries and their customers. CLEAResult Consulting Inc. ("CLEAResult") implements the program and coordinates program activities, including engaging with the food banks and their participating food pantries.

The program had 577 participating food pantries in CY2019 and distributed 1,879,860 measures as shown in the following table and graph.

Table 2-1. CY2019 Volumetric Findings Detail

| Participation | Total CY2019 Count |
|---|--------------------|
| Number of Participating Food Pantries | 577 |
| Number of 9W LEDs Distributed | 1,690,960 |
| Number of 4.5W Candelabra LED's Distributed | 188,900 |
| Total Number of Measures Distributed | 1,879,860 |

Source: ComEd tracking data and evaluation team analysis



4.5W
Candelabra
10%

9W LEDs
90%

Figure 2-1. Number of Measures Installed by Type

Source: ComEd tracking data and evaluation team analysis

3. PROGRAM SAVINGS DETAIL

Table 3-1 summarizes the incremental energy and demand savings the Food Bank LED Distribution Program achieved in CY2019.



Table 3-1. CY2019 Total Annual Incremental Electric Savings

| Savings Category | Energy Savings (kWh) | Non-Coincident Demand Savings (kW) | Summer Peak Demand Savings (kW) |
|----------------------------------|----------------------|---------------------------------------|------------------------------------|
| Electricity | | | |
| Ex Ante Gross Savings | 61,524,375 | NR | 7,438 |
| Program Gross Realization Rate | 1.25 | NA | 1.21 |
| Verified Gross Savings | 76,763,976 | 69,593 | 9,026 |
| Program Net-to-Gross Ratio (NTG) | 1.00 | 1.00 | 1.00 |
| Verified Net Savings | 76,763,976 | 69,593 | 9,026 |
| Converted from Gas† | | | |
| Ex Ante Gross Savings | NA | NA | NA |
| Program Gross Realization Rate | NA | NA | NA |
| Verified Gross Savings | NA | NA | NA |
| Program Net-to-Gross Ratio (NTG) | NA | NA | NA |
| Verified Net Savings | NA | NA | NA |
| Total Electric Plus Gas | | | |
| Ex Ante Gross Savings | 61,524,375 | NR | 7,438 |
| Program Gross Realization Rate | 1.25 | NA | 1.21 |
| Verified Gross Savings | 76,763,976 | 69,593 | 9,026 |
| Program Net-to-Gross Ratio (NTG) | 1.00 | 1.00 | 1.00 |
| Verified Net Savings | 76,763,976 | 69,593 | 9,026 |

NR = Not reported (refers a piece of data that was not reported, i.e., non-coincident demand savings)

4. CUMULATIVE PERSISTING ANNUAL SAVINGS

Table 4-1 shows the measure-specific and total verified gross savings for the Food Bank LED Distribution Program and the cumulative persisting annual savings (CPAS) for the measures installed in CY2019. The electric CPAS across all measures installed in 2019 is 76,763,976 kWh (Table 4-1). The "historic" rows in each table are the CPAS contribution back to CY2018. The "Program Total Electric CPAS" includes the sum of the CY2019 contribution and the historic contribution.

Guidehouse did not evaluate gas savings for this program and as such electric CPAS is equivalent to total CPAS.

NA = Not applicable (refers a piece of data cannot be produced or does not apply)

^{*} The coincident summer peak period is defined as 1:00-5:00 p.m. Central Prevailing Time on non-holiday weekdays, June through August.

[†] ComEd did not claim and the evaluation did not quantify gas savings for this program.

Source: ComEd tracking data and evaluation team analysis



Table 4-1. Cumulative Persisting Annual Savings (CPAS)

| | | | | | | | Verified Net kW | h Savings | | | | | | | |
|-------------------|---|-----------|--|---------|-------|-----------------------------------|-----------------|-------------|-------------|------------|------------|------------|------------|------------|------------|
| End Use Type | Research Category | Ve EUL | CY201 rified Gros Saving (kWh | s s | NTG* | Lifetime Net Savings (kWh)† | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
| Lighting | 9W LED | 10.0 | 55,842,287 | | 1.00 | 256,217,013 | | 55,842,287 | 55,842,287 | 18,066,555 | 18,066,555 | 18,066,555 | 18,066,555 | 18,066,555 | 18,066,555 |
| Lighting | 4.5W Candelabra LED | 10.0 | 5,630,329 | | 1.00 | 33,861,243 | | 5,630,329 | 5,630,329 | 5,630,329 | 5,630,329 | 5,630,329 | 1,141,919 | 1,141,919 | 1,141,919 |
| Lighting | PY9 & CY2018 Carryover§§ | 7.5 | 15,291,360 | ı | 1.00 | 52,752,410 | | 15,291,360 | 15,291,360 | 2,778,360 | 2,778,360 | 2,778,360 | 2,767,831 | 2,767,547 | 2,766,411 |
| CY2019 Program | Total Electric Contribution to CPAS | | 76,763,976 | | | 342,830,665 | | 76,763,976 | 76,763,976 | 26,475,244 | 26,475,244 | 26,475,244 | 21,976,305 | 21,976,021 | 21,974,885 |
| Historic Program | Total Electric Contribution to CPAS‡ | | | | | | 39,753,102 | 39,753,102 | 39,753,102 | 12,007,480 | 12,007,480 | 12,007,480 | 12,006,881 | 11,218,166 | 11,218,166 |
| Program Total Ele | | | | | | | 39,753,102 | 116,517,078 | 116,517,078 | 38,482,724 | 38,482,724 | 38,482,724 | 33,983,186 | 33,194,187 | 33,193,051 |
| CY2019 Program | Incremental Expiring Electric Savings§ | | | | | | | | - | 50,288,732 | - | - | 4,498,939 | 284 | 1,136 |
| | Incremental Expiring Electric Savings‡§ | | | | | | | - | - | 27,745,622 | • | - | 599 | 788,715 | - |
| Program Total In | cremental Expiring Electric Savings§ | | | | | | | - | - | 78,034,354 | - | - | 4,499,538 | 788,999 | 1,136 |
| End Use Type | Research Category | : | 2027 | 2028 | | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 |
| Lighting | 9W LED | 18,066, | 555 18 | 066,555 | | | | | | | | | | | |
| Lighting | 4.5W Candelabra LED | 1,141, | 919 1 | 141,919 | | | | | | | | | | | |
| Lighting | PY9 & CY2018 Carryover§§ | 2,766, | 411 2 | 766,411 | | | | | | | | | | | |
| CY2019 Progra | am Total Electric Contribution to CPAS | 21,974, | 885 21 | 974,885 | | - | | | | | | | | | |
| Historic Progra | am Total Electric Contribution to CPAS‡ | 11,218, | 166 | - | | - | | | | | | | | | |
| Program Total | Program Total Electric CPAS 33,193,051 21,974,885 - | | | | | | | | | | | | | | |
| CY2019 Progra | am Incremental Expiring Electric Savings§ | | - | - | 21,97 | 74,885 | | | | | | | | | |
| Historic Progra | am Incremental Expiring Electric Savings: | | - 11 | 218,166 | | - | | | | | | | | | |
| Program Total | Incremental Expiring Electric Savings§ | | - 11, | 218,166 | 21,97 | 74,885 | | | | | | | | | |

Note: The green highlighted cell shows program total first year electric savings. The gray cells are blank, indicating values irrelevant to the CY2019 contribution to CPAS.

Source: Evaluation team analysis

^{*} A deemed value. Source: is to be found on the Illinois SAG web site here: https://www.ilsag.info/ntg_2019.

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

[‡] Historical savings go back to CY2018

[§] Incremental expiring savings are equal to CPAS Y_{n-1} - CPAS Y_n

^{§§} The EUL for carryover savings is a weighted average of the lighting measures that were combined together.

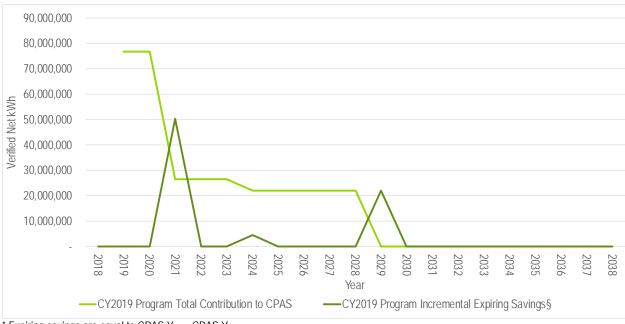


Figure 4-1. Cumulative Persisting Annual Savings

5. PROGRAM SAVINGS BY MEASURE

The program includes two measures as shown in the following tables. The 9W LED lamps contributed the most savings (see Figure 5-1). There is also carryover from deferred installations of lamps distributed in PY9 and CY2018. Total ex ante savings from the program did not include carryover savings.

 $^{^{\}star}$ Expiring savings are equal to CPAS $Y_{n\text{-}1}$ - CPAS Y_n Source: Evaluation team analysis



9W LED 73%

Figure 5-1. Verified Net Savings by Measure – Electric

Source: ComEd tracking data and evaluation team analysis

Table 5-1. CY2019 Energy Savings by Measure - Electric

| End Use Type | Research Category | Ex Ante Gross Savings (kWh) | Verified Gross Realization Rate | Verified Gross Savings (kWh) | NTG* | Verified Net Savings (kWh) | EUL (years) |
|--------------|------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------|----------------------------------|----------------|
| Lighting | 9W LED | 55,842,263 | 1.00 | 55,842,287 | 1.00 | 55,842,287 | 10.0 |
| Lighting | 4.5W Candelabra LED | 5,682,112 | 0.99 | 5,630,329 | 1.00 | 5,630,329 | 10.0 |
| Lighting | PY9 & CY2018 Carryover | NR | NA | 15,291,360 | 1.00 | 15,291,360 | 7.5 |
| | Total | 61,524,375 | 1.25 | 76,763,976 | 1.00 | 76,763,976 | 9.5 |

NA = Not applicable

Note: The savings in this table includes secondary electric energy (kWh) savings from water supply and wastewater treatment plants for measures claimed by ComEd.

Source: ComEd tracking data and evaluation team analysis

^{*} A deemed value. Source: is to be found on the Illinois SAG web site here: https://www.ilsag.info/ntg_2019.



Table 5-2. CY2019 Non-Coincident Demand Savings by Measure

| End Use Type | Research Category | Ex Ante Gross Non- Coincident Demand Reduction (kW) | Verified Gross Realization Rate | Verified Gross Non- Coincident Demand Reduction (kW) | NTG* (| Verified Net Non- Coincident Demand Reduction (kW) |
|--------------|------------------------|---|---------------------------------------|--|--------|--|
| Lighting | 9 W LED | NR | NA | 50,052.42 | 1.00 | 50,052.42 |
| Lighting | 4.5W Candelabra LED | NR | NA | 5,723.67 | 1.00 | 5,723.67 |
| Lighting | PY9 & CY2018 Carryover | NR | NA | 13,817.39 | 1.00 | 13,817.39 |
| | Total | NR | NA | 69,593.48 | 1.00 | 69,593.48 |

NA = Not applicable

NR = Not reported* A deemed value. Source: is to be found on the Illinois SAG web site here: https://www.ilsaq.info/ntg_2019.

Source: ComEd tracking data and evaluation team analysis

Table 5-3. CY2019 Summer Peak Demand Savings by Measure

| End Use Type | Research Category | Ex Ante Gross Peak Demand Reduction (kW) | Verified Gross Realization Rate | Verified Gross Peak Demand Reduction (kW) | NTG* | Verified Net Peak Demand Reduction (kW) |
|--------------|------------------------|--|---------------------------------------|---|------|---|
| Lighting | 9 W LED | 6,763.84 | 1.00 | 6,763.84 | 1.00 | 6,763.84 |
| Lighting | 4.5 W Candelabra LED | 674.37 | 0.98 | 661.15 | 1.00 | 661.15 |
| Lighting | PY9 & CY2018 Carryover | NR | NA | 1,600.86 | 1.00 | 1,600.86 |
| | Total | 7,438.21 | 1.21 | 9,025.85 | NA | 9,025.85 |

NA = Not applicable

Source: ComEd tracking data and evaluation team analysis

6. IMPACT ANALYSIS FINDINGS AND RECOMMENDATIONS

6.1 Impact Parameter Estimates

The evaluation follows the methodology provided in the Illinois TRM (TRM). The lifetime energy and demand savings are estimated by multiplying the verified savings by the effective useful life for each measure.

Table 6-1 and Table 6-2 show the inputs used to calculate the verified energy and demand savings for the 9W LED and 4.5W candelabra LED measures, respectively, along with details about the source of each input.

^{*} A deemed value. Source: is to be found on the Illinois SAG web site here: https://www.ilsag.info/ntg_2019.



Table 6-1. 9W LED Savings Parameters

| Gross Savings Input Parameters | Value Units | Deemed * or Evaluated? | Source |
|-----------------------------------|----------------------|---------------------------|--------------------------|
| Quantity | 1,690,960 # measures | Evaluated | ComEd Tracking Data |
| Watts EE | 9 W | Deemed | Specifications |
| Watts Base | 43 W | Deemed | TRM v7.0 - Section 5.5.8 |
| ISR | 80.30% - | Evaluated | Guidehouse CY2018 Survey |
| Leakage | 0.7% - | Deemed | TRM v7.0 - Section 5.5.8 |
| Hours | 1,159 Hours/year | Deemed | TRM v7.0 - Section 5.5.8 |
| WHe | 1.051 - | Deemed | TRM v7.0 - Section 5.5.8 |
| WHFd | 1.093 - | Deemed | TRM v7.0 - Section 5.5.8 |
| CF | 0.135 - | Deemed | TRM v7.0 - Section 5.5.8 |
| HF | 42% - | Deemed | TRM v7.0 - Section 5.5.8 |
| nHeat - gas | 0.7 - | Deemed | TRM v7.0 - Section 5.5.8 |

^{*} TRM is the State of Illinois Technical Reference Manual version 7.0 from https://www.ilsag.info/technical-reference-manual.html. The NTG values can be found on the Illinois SAG web site here: https://www.ilsag.info/ntg 2019.

Table 6-2. 4.5W Candelabra LED Savings Parameters

| Gross Savings Input Parameters | Value Units | Deemed * or Evaluated? | Source |
|--------------------------------|--------------------|---------------------------|--------------------------|
| Quantity | 188,900 # measures | Evaluated | ComEd Tracking Data |
| Watts EE | 4.5 W | Deemed | Specifications |
| Watts Base | 40 W | Deemed | TRM v7.0 - Section 5.5.6 |
| ISR | 80.30% - | Evaluated | Guidehouse CY2018 Survey |
| Leakage | 2.0% - | Deemed | TRM v7.0 - Section 5.5.6 |
| Hours | 1,020 Hours/year | Deemed | TRM v7.0 - Section 5.5.6 |
| WHe | 1.046 - | Deemed | TRM v7.0 - Section 5.5.6 |
| WHFd | 1.083 - | Deemed | TRM v7.0 - Section 5.5.6 |
| CF | 0.117 - | Deemed | TRM v7.0 - Section 5.5.6 |
| HF | 42% - | Deemed | TRM v7.0 - Section 5.5.6 |
| nHeat - gas | 0.7 - | Deemed | TRM v7.0 - Section 5.5.6 |

^{*} TRM is the State of Illinois Technical Reference Manual version 7.0 from http://www.ilsag.info/technical-reference-manual.html. The NTG values can be found on the Illinois SAG web site here: https://www.ilsag.info/ntg_2019.

6.2 CY2020 Carryover Savings Estimates

Calculation of the Calendar Year 2020 (CY2020) carryover estimate relies upon the TRM v8.0 and the CY2018 and CY2019 reports. At this time, all of these data sources are available and thus it is possible to estimate the gross and net carryover energy savings that the evaluation team recommends for CY2020. The energy and demand savings from these CY2018 and CY2019 deferred installs are calculated based on the following parameters:

- Delta Watts calculated for the year of installation (source: TRM v7.0, CY2019 program data).
- HOU and Peak CF –TRM deemed value from the year of installation (source: TRM v7.0).



- Energy and Demand Interactive Effects –TRM deemed value from the year of installation (source: TRM v7.0.)
- Installation Rate –TRM deemed value from the year of purchase (source: TRM v6.0, TRM v7.0).
- NTG Evaluation research from the year of purchase (source: CY2018 and CY2019 Reports).

Table 6-3 shows that in CY2020, 222,165 bulbs, purchased during either CY2018 or CY2019, are expected to be installed within ComEd service territory. The table provides both the gross and net energy and demand savings from these bulbs. The total net energy savings is estimated to be 15,622,866 kWh and 1,897 summer peak kW, which will be counted in CY2020 as LED Distribution Program carryover savings.

Table 6-3. CY2020 Verified Savings Carryover Estimate

| CY2020 Verified Savings Carryover Estimate | CY2018 Bulbs | CY2019 Bulbs | Carryover in CY2020 |
|---|--------------|--------------|---------------------|
| Carryover Bulbs Installed During CY2019 | 204,031 | 18,134 | 222,165 |
| Average Delta Watts | 34.0 | 34.2 | 34.0 |
| Average Annual Hours of Use | 1,159 | 1,145 | 1,157.9 |
| Energy Interactive Effects | 1.051 | 1.050 | 1.051 |
| Demand Interactive Effects | 1.093 | 1.092 | 1.093 |
| Summer Peak Load Coicidence Factor | 0.135 | 0.133 | 0.135 |
| Carryover Gross Energy Savings (kWh) | 8,267,530 | 7,355,336 | 15,622,866 |
| Carryover Gross Demand Savings (kW) | 7,471 | 6,674 | 14,144 |
| Carryover Gross Summer Peak Demand Savings (kW) | 1,008.54 | 888.64 | 1,897.18 |
| Net-to-Gross Ratio | 1.00 | 1.00 | 1.00 |
| Carryover Net Energy Savings (kWh) | 8,267,530 | 7,355,336 | 15,622,866 |
| Carryover Net Demand Savings (kW) | 7,471 | 6,674 | 14,144 |
| Carryover Net Summer Peak Demand Savings (kW) | 1,008.54 | 888.64 | 1,897.18 |
| Effective Useful Life | 10.0 | 10.0 | 6.0 |

6.3 Other Impact Findings and Recommendations

The evaluation team developed several recommendations based on findings from the CY2019 evaluation.

The evaluation team observed minor discrepancies in the verified and ex ante per unit energy and demand savings for LEDs, most likely caused by rounding at different points in the calculation. Guidehouse recommends that calculated values be rounded only at the final value, not in any interim calculation steps. The evaluation team calculated ex post values using this rounding methodology to ensure the most accurate calculations. Please see Recommendation 2 for a detailed description of the recommended rounding methodology. The program level realization rate is 125% due to carryover savings not being included in ex ante calculations.

Finding 1. The ex ante calculations do not include the carryover savings from previous evaluation years.

Recommendation 1. Guidehouse recommends including the carryover savings from previous evaluations years in the ex ante energy, non-coincident demand, and peak demand savings.



Finding 2. The ex ante values claimed in eTrack for the 4.5W candelabra LED are slightly different than the implementer provided calculations. The verified savings are consistent with the implementer provided calculations. This is likely due to differences in rounding methods applied during analysis.

Recommendation 2. Guidehouse recommends verifying that the values used in eTrack are consistent with the implementer provided and Guidehouse reviewed values for CY2020. The implementer should round final calculated values for electric kWh savings to three decimal places and five decimal places for kW savings with no rounding of interim calculation steps. Guidehouse recommends that calculated values be rounded only at the final value, not in any interim calculation steps.



7. APPENDIX 1. TOTAL RESOURCE COST DETAIL

Table 7-1 shows the Total Resource Cost (TRC) cost-effectiveness analysis inputs available at the time of finalizing this impact evaluation report. Additional required cost data (e.g., measure costs, program level incentive and non-incentive costs) are not included in this table and will be provided to the evaluation team later.

Table 7-1. Total Resource Cost Savings Summary

| End Use Type | Research Category | Units | Quantity | EUL (years)* | | Verified Gross Electric Energy Savings (kWh) | Verified Gross Peak Demand Reduction (kW) | | Gross Heating Penalty (kWh) | Gross Heating Penalty (Therms) | NTG NTG (kWh) (kW) | | Verified Net Electric Energy Savings (kWh) | Verified Net Peak Demand Reduction (kW) | Verified Net Gas Savings (Therms) | Net Heating Penalty (kWh) | Net Heating Penalty (Therms) |
|--------------|-------------------------|-------|-----------|-----------------|----|--|---|---|--------------------------------|--------------------------------------|-----------------------|------|--|--|--|------------------------------------|---------------------------------------|
| Lighting | 9 W LED | Lamp | 1,690,960 | 10.0 | No | 55,842,287 | 6,764 | - | | -1,095,404 | 1.00 1.00 | 1.00 | 55,842,287 | 6,764 | 0 | 0 | -1,095,404 |
| Lighting | 4.5W Candelarbra LED | Lamp | 188,900 | 10.0 | No | 5,630,329 | 661 | - | | -112,452 | 1.00 1.00 | 1.00 | 5,630,329 | 661 | 0 | 0 | -112,452 |
| Lighting | 13W CFL Carryover | Lamp | 128,464 | 2.0 | No | 4,701,566 | 344 | - | | -83,617 | 1.00 1.00 | 1.00 | 4,701,566 | 344 | 0 | 0 | -83,617 |
| Lighting | 9W CFL Carryover | Lamp | 405 | 2.0 | No | 9,887 | 1 | - | | -176 | 1.00 1.00 | 1.00 | 9,887 | 1 | 0 | 0 | -176 |
| Lighting | 18W CFL Carryover | Lamp | 67 | 2.0 | No | 2,851 | 0 | - | | -51 | 1.00 1.00 | 1.00 | 2,851 | 0 | 0 | 0 | -51 |
| Lighting | 23W CFL Carryvoer | Lamp | 34 | 2.0 | No | 2,006 | 0 | - | - | -36 | 1.00 1.00 | 1.00 | 2,006 | 0 | 0 | 0 | -36 |
| Lighting | 14 W Flood Carryover | Lamp | 27 | 6.8 | No | 1,474 | 0 | - | - | -26 | 1.00 1.00 | 1.00 | 1,474 | 0 | 0 | 0 | -26 |
| Lighting | 9W Candelabra Carryover | Lamp | 4 | 6.8 | No | 130 | 0 | - | - | -2 | 1.00 1.00 | 1.00 | 130 | 0 | 0 | 0 | -2 |
| Lighting | 9W Globe Carryover | Lamp | 315 | 6.8 | No | 10,344 | 1 | - | - | -184 | 1.00 1.00 | 1.00 | 10,344 | 1 | 0 | 0 | -184 |
| Lighting | 9W LED Carryover | Lamp | 254,916 | 10.0 | No | 10,563,101 | 1,255 | - | - | -187,864 | 1.00 1.00 | 1.00 | 10,563,101 | 1,255 | 0 | 0 | -187,864 |
| | Total | | 2,264,092 | 9.5 | | 76,763,976 | 9,026 | - | - | -1,479,811 | | | 76,763,976 | 9,026 | 0 | 0 | -1,479,811 |

^{*} The total of the EUL column is the weighted average measure life (WAML) and is calculated as the sum product of EUL and measure savings divided by total program savings.

Source: ComEd tracking data and evaluation team analysis

[†] Early Replacement (ER) measures are flagged as YES, otherwise a NO is indicated in the column.