

Ameren Illinois Company

2024 Integrated Impact Evaluation Report

Draft

March 13, 2025

Contents

[1. Executive Summary 4](#_Toc192774857)

[1.1 Overview of the AIC Portfolio 4](#_Toc192774858)

[1.2 2024 Portfolio Savings 7](#_Toc192774859)

[2. Evaluation Approach 10](#_Toc192774860)

[2.1 Research Objectives 10](#_Toc192774861)

[2.2 Verified Gross Impact Analysis Approach 11](#_Toc192774862)

[2.3 Verified Net Impact Analysis Approach 12](#_Toc192774863)

[2.4 Sources and Mitigation of Error 13](#_Toc192774864)

[3. Portfolio Verified Savings 16](#_Toc192774865)

[3.1 2024 Residential Program Annual Savings 16](#_Toc192774866)

[3.2 2024 Business Program Annual Savings 18](#_Toc192774867)

[3.3 2024 Voltage Optimization Program Annual Savings 20](#_Toc192774868)

[3.4 Savings Conversions 20](#_Toc192774869)

[4. Portfolio Economic and Employment Impacts 23](#_Toc192774870)

[Appendix A. 2024 Detailed Verified Savings Results 24](#_Toc192774871)

[Appendix B. 2024 Program Evaluation Reports 28](#_Toc192774872)

[Appendix C. 2024 Cumulative Persisting Annual Savings 29](#_Toc192774873)

[Appendix D. 2024 High Impact Measure List 32](#_Toc192774874)

TABLES

[Table 1. 2024 AIC Portfolio Annual Savings 7](#_Toc192774875)

[Table 2. 2024 AIC Portfolio AAIG Achievement 8](#_Toc192774876)

[Table 3. 2024 AIC Portfolio CPAS and WAML 8](#_Toc192774877)

[Table 4. 2024 AIC Portfolio CPAS Goal Achievement 9](#_Toc192774878)

[Table 5. 2024 Impact Evaluation Activities 10](#_Toc192774879)

[Table 6. 2024 Residential Program Verified Net Savings Summary for Non-Income Qualified Initiatives 13](#_Toc192774880)

[Table 7. 2024 Residential Program Electric Energy Annual Savings Summary 16](#_Toc192774881)

[Table 8. 2024 Residential Program Electric Demand Annual Savings Summary 17](#_Toc192774882)

[Table 9. 2024 Residential Program Gas Annual Savings Summary 18](#_Toc192774883)

[Table 10. 2024 Business Program Electric Energy Annual Savings Summary 18](#_Toc192774884)

[Table 11. 2024 Business Program Electric Demand Annual Savings Summary 19](#_Toc192774885)

[Table 12. 2024 Business Program Gas Annual Savings Summary 19](#_Toc192774886)

[Table 13. 2024 Voltage Optimization Program Annual Savings Summary 20](#_Toc192774887)

[Table 14. 2024 AIC (b-25) Conversions 21](#_Toc192774888)

[Table 15. 2024 AIC Electrification Savings 22](#_Toc192774889)

[Table 16. 2024 AIC Portfolio Job and Macroeconomic Impacts 23](#_Toc192774890)

[Table 17. 2024 Detailed Verified Savings Results – Electric 24](#_Toc192774891)

[Table 18. 2024 Detailed Verified Savings Results – Gas 26](#_Toc192774892)

[Table 19. 2024 AIC Portfolio CPAS and WAML 29](#_Toc192774893)

# Executive Summary

This report presents impact evaluation results from Ameren Illinois Company’s (AIC) portfolio of energy efficiency programs implemented during the 2024 calendar year. The overarching objective of the 2024 impact evaluation is to determine the gross and net electric energy, electric demand, and natural gas impacts associated with the AIC energy efficiency portfolio. The purpose of this report is to aggregate results from AIC’s Residential, Business, and Voltage Optimization Programs and present the utility’s performance relative to electric energy savings metrics codified in Illinois state law.

Key performance metrics for the portfolio include:

* **Cumulative Persisting Annual Savings (CPAS):** Since 2018, electric energy savings goals for Illinois utilities have been primarily defined based on persisting savings as a percentage of sales. As such, annual evaluations of AIC’s electric energy efficiency programs must present both annual and persisting savings over the life of delivered measures. As a result, AIC and its program implementer have sought to deliver programs that achieve savings that persist for longer periods of time.
* **Weighted Average Measure Life (WAML):** Section 8-103B allows AIC to create a regulatory asset from all of its 8-103B expenditures, and amortize and recover the total expenditures of that regulatory asset “over a period that is equal to the weighted average of the measure lives implemented for that year that are reflected in the regulatory asset.”[[1]](#footnote-1) Therefore, annual evaluations of AIC’s electric energy efficiency programs must present a WAML in accordance with the guidelines for calculation presented in the Illinois Stakeholder Advisory Group’s (SAG) WAML Report and the Illinois Energy Efficiency Policy Manual.[[2]](#footnote-2)
* **Applicable Annual Incremental Goal (AAIG):** Section 8-103B allows AIC to earn a rate of return on their electric energy efficiency spending if they create a regulatory asset, as discussed above. The rate of return that is earned can be adjusted either up or down as a function of AIC’s performance relative to its AAIG. The AAIG is defined as the difference between the cumulative persisting electric savings goal for the year being evaluated and the cumulative persisting electric savings goal for the previous year. AIC must achieve sufficient savings through its programs to replace savings from measures at the end of their measure life before progress can be counted toward the AAIG. Therefore, annual evaluations of AIC’s electric energy efficiency programs must assess AIC’s performance against its AAIG.

##  Overview of the AIC Portfolio

AIC’s 2024 portfolio is made up of three programs: the Residential Program, the Business Program, and the Voltage Optimization Program. The Residential and Business Programs are split into a number of initiatives, organized in our evaluations as detailed below:

* Residential Program
	+ Retail Products Initiative
	+ Income Qualified Initiative – Single Family Offerings
	+ Multifamily Initiatives
	+ Market Rate Single Family Initiative
	+ Kits Initiatives
* Business Program
	+ Standard Initiative
	+ Custom Initiative
	+ Retro-Commissioning (RCx) Initiative
	+ Streetlighting Initiative
	+ Small Business Initiative
	+ Midstream Initiative
	+ Luminaire-Level Lighting Control (LLLC) Market Transformation (MT) Pilot
* Voltage Optimization Program

Individual Residential and Business Program initiatives are further split into channels. For more details on the Residential and Business Programs, please see the *2024 AIC Residential Program Annual Impact Evaluation Report* and the *2024 AIC Business Program Annual Impact Evaluation Report*. Note that to best serve AIC and stakeholders, we have considered the delivery strategy and unique characteristics for each AIC offering at the Initiative and channel level and have organized our evaluation activities to most effectively use evaluation resources, minimize customer touchpoints, and optimize research insights. As a result of organizational choices made in this process, evaluation reporting for the Residential Program is not organized in a way that perfectly aligns with formal portfolio organization. For further details on where this report differs in its reporting from AIC’s portfolio organization, please see the *2024 AIC Residential Program Annual Impact Evaluation Report*.

AIC has a specific focus on serving low income customers through its residential energy efficiency programs. While the Income Qualified Initiative focuses entirely on these customers, most of AIC’s other residential efforts also direct a significant portion of their services to low income customers. Most notably, the majority of the savings achieved by Retail Products Initiative in 2024 were in delivery of measures to low income customers. In addition, two of the three components of the Multifamily Initiatives (the Income Qualified channel of the Multifamily Initiative as well as the Public Housing Initiative) deliver services to only low income customers, and all channels of the Kits Initiatives are focused entirely on low income customers as well.

### 2024 Portfolio Performance

Overall, the portfolio’s savings are driven heavily by a small number of initiatives. The Residential Program’s Retail Products Initiative (including the Income Qualified Initiative – Retail Products channel), the Voltage Optimization Program, and the Business Program’s Standard Initiative together provided more than half (59%) of portfolio verified net electric energy savings in 2024. Figure 1 shows 2024 portfolio verified net electric energy savings by initiative.

Figure 1. 2024 AIC Portfolio Verified Net Electric Energy Savings by Initiative



Gas savings are similarly concentrated. Three initiatives (The Business Program’s Custom and Standard Initiatives and the Residential Program’s Retail Products Initiative) provided over three-quarters of portfolio gas savings in 2024. Figure 2 shows portfolio verified net gas savings by initiative.

Figure 2. 2024 AIC Portfolio Verified Net Gas Savings by Initiative



As discussed above, the majority of AIC’s residential program offerings are focused on low-income customers. Figure 3 presents a chart of AIC portfolio savings that breaks out Residential Program savings by market rate vs. low income to provide a better picture of the degree to which AIC’s portfolio delivered energy savings to low-income customers. Approximately one quarter of AIC’s total 2024 portfolio savings are realized by low-income customers.

Figure 3. 2024 AIC Portfolio Verified Net Savings by Sector



Note that Figure 3 understates the extent to which AIC’s electric programs delivered energy savings to low-income customers in 2024. As discussed in greater depth in the *2024 AIC Voltage Optimization Program Annual Impact Evaluation Report,* AIC has prioritized low-income customers as part of its VO deployment. While our evaluation is unable to explicitly apportion savings to low-income customers from the Voltage Optimization Program, as a distribution circuit-level improvement, a share of the savings realized by the Program are realized by low-income customers.

## 2024 Portfolio Savings

Overall, AIC’s portfolio outperformed its 2024 goals. The portfolio achieved 106% of its AAIG and 109% of its CPAS target. The portfolio WAML is 14.3 years, which is a significant increase compared to the 2023 portfolio, which had a WAML of 12.3 years.

### Annual Savings

Table 1 presents annual savings achieved by the 2024 AIC portfolio. Savings conversions are discussed further in Section 3.4. The calculation of residential nonparticipant spillover (NPSO) is discussed further in Section 2.3.2.

Table 1. 2024 AIC Portfolio Annual Savings

|  | Energy Savings (MWh) | Peak Demand Savings (MW) | Gas Savings (Therms) |
| --- | --- | --- | --- |
| Ex Ante Gross Savings | 414,219 | 58.09 | 5,977,102 |
| Gross Realization Ratea | 100% | 85% | 107% |
| Verified Gross Savings | 427,186 | 65.12 | 6,412,286 |
| NTGR | 0.926 | 0.926 | 0.854 |
| Verified Net Savings Before Residential NPSO | 395,644 | 60.30 | 5,475,414 |
| Residential NPSO Adder | 901 | 0.17 | 56,649 |
| (b-25) Conversions - Other Fuels | 42,428 | N/A | 0 |
| Verified Net Savings After NPSO and (b-25) Conversions | 438,973 | 60.47 | 5,532,063 |

a Calculations of gross realization rate exclude categories of savings with no corresponding ex ante savings. Therefore, gross realization rates cannot be directly calculated from values presented in this table.

b AIC converted only natural gas and propane savings that were not eligible to be claimed against its gas savings goals in 2024. For further detail, see Section 3.4.1.

### Applicable Annual Incremental Goal Achievement

AIC achieved 106% of its 2024 AAIG for electric savings. 2024 AAIG achievement is presented in Table 4.

Table 2. 2024 AIC Portfolio AAIG Achievement

| Metric | MWh |
| --- | --- |
| 2024 Annual Net Savings | 438,973 |
| 2024 Expiring CPAS from Legislation | 88,268 |
| 2024 Expiring CPAS from 2023 Portfolio | 0 |
| 2024 Expiring CPAS from 2022 Portfolio | 721 |
| 2024 Expiring CPAS from 2021 Portfolio | 4,758 |
| 2024 Expiring CPAS from 2020 Portfolio | 24,755 |
| 2024 Expiring CPAS from 2019 Portfolio | 30,820 |
| 2024 Expiring CPAS from 2018 Portfolio | 9,738 |
| 2024 Annual Incremental Savings Achieved | 279,913 |
| 2024 AAIG | 265,224 |
| % of 2024 AAIG Achieved | 106% |

### Cumulative Persisting Annual Savings

Table 3 summarizes overall CPAS and WAML for the 2024 AIC portfolio by program, including (b-25) conversions (explained in more detail in Section 3.4.1). The overall WAML for the portfolio is 14.4 years including Voltage Optimization and 14.3 years excluding Voltage Optimization. Additional detail on CPAS achieved by the portfolio is available in Appendix C.

Table 3. 2024 AIC Portfolio CPAS and WAML

| Program | WAML | Annual Verified Gross Savings (MWh) | NTGR | CPAS – Verified Net Savings (MWh) | Lifetime Savings (MWh) |
| --- | --- | --- | --- | --- | --- |
| 2024 | 2025 | 2026 | 2027 | … | 2030 | … |
| Residential | 10.3 | 159,796 | 0.901 | 144,038 | 144,038 | 143,074 | 143,073 | … | 139,693 | … | 1,464,770 |
| Business | 14.6 | 192,719 | 0.910 | 175,338 | 175,338 | 175,266 | 173,409 | … | 169,580 | … | 2,517,077 |
| (b-25) Conversions | 24.7 | 52,789 | 0.804 | 42,428 | 42,428 | 42,428 | 42,428 | … | 42,428 | … | 1,053,837 |
| Voltage Optimization | 15.0 | 77,169 | N/A | 77,169 | 77,169 | 77,169 | 77,169 | … | 77,169 | … | 1,157,529 |
| 2024 CPAS |   | 482,472 | 0.910 | 438,973 | 438,973 | 437,937 | 436,079 | … | 428,870 | … | 6,193,212 |
| Expiring 2024 CPAS |   |   |   | 0 | 0 | 1,036 | 1,858 | … | 2,602 | … |  |
| Expired 2024 CPAS |   |   |   | 0 | 0 | 1,036 | 2,894 | … | 10,103 | … |  |
| WAML | 14.4 |  |  |  |  |  |  |  |  |  |  |
| WAML without VO | 14.3 |  |  |  |  |  |  |  |  |  |  |

### Cumulative Persisting Annual Savings Goal Achievement

AIC achieved 109% of its 2024 CPAS goal for electric savings. 2024 CPAS achievement is presented in Table 4.

Table 4. 2024 AIC Portfolio CPAS Goal Achievement

| Metric | MWh |
| --- | --- |
| 2024 CPAS from 2024 Portfolio | 438,973 |
| 2024 CPAS from 2023 Portfolio | 457,158 |
| 2024 CPAS from 2022 Portfolio | 456,685 |
| 2024 CPAS from 2021 Portfolio | 446,329 |
| 2024 CPAS from 2020 Portfolio | 411,418 |
| 2024 CPAS from 2019 Portfolio | 264,586 |
| 2024 CPAS from 2018 Portfolio | 294,062 |
| 2024 CPAS from Legislation | 823,834 |
| 2024 CPAS Achieved | 3,593,044 |
| 2024 CPAS Goal | 3,310,600 |
| % of 2024 CPAS Goal Achieved | 109% |

# Evaluation Approach

The following section of the report describes the evaluation approach taken for the impact evaluation of the 2024 AIC portfolio. As part of the evaluation process, the evaluation team applied versions of the Illinois Energy Efficiency Policy Manual and the Illinois Technical Reference Manual (IL-TRM) applicable to the 2024 program year (Versions 3.0 and 3.0, and Version 12.0 [V12.0], respectively) wherever relevant.[[3]](#footnote-3)

## Research Objectives

The overarching research objectives for the impact evaluation of AIC’s 2024 energy efficiency programs are as follows:

* Estimate the estimated gross energy and demand impacts from the portfolio.
* Estimate the net energy and demand impacts from the portfolio.

The evaluation team met these objectives by conducting the impact evaluation activities listed in Table 5. As shown, for most initiatives, the impact evaluation primarily consisted of applying savings algorithms from the IL-TRM V12.0 to final initiative tracking databases to estimate verified gross savings. In addition, we reviewed initiative materials and interviewed initiative managers.

Table 5. 2024 Impact Evaluation Activities

| Program | Initiative | Gross Impacts | Net Impacts |
| --- | --- | --- | --- |
| IL-TRM Application Review | Engineering Desk Reviews | On-Site Measurement and Verification (M&V) | Consumption Analysis | Application of SAG-Approved NTGRs |
| Residential Program | Retail Products Initiative | ü |  |  |  | ü |
| Income Qualified Initiative– Single Family Offerings | ü |  |  |  | ü |
| Multifamily Initiatives | ü |  |  |  | ü |
| Market Rate Single Family Initiative | ü |  |  |  | ü |
| Kits Initiatives | ü |  |  |  | ü |
| Business Program | Standard Initiative | P | P |  |  | P |
| Custom Initiative |  | P | P | P | P |
| Retro-Commissioning Initiative |  | P | P | P | P |
| Streetlighting Initiative | P |  |  |  | P |
| Small Business Initiative | P |  |  |  | P |
| Midstream Initiative | P |  |  |  | P |
| Voltage Optimization Program | ü |  |  | ü | ü |

The following sections provide further detail on the verified gross and net impact evaluation activities.

## Verified Gross Impact Analysis Approach

### Application of IL-TRM V12.0

To determine verified gross impacts associated with the majority of the measures delivered through the 2024 AIC portfolio, we reviewed the content of the initiative tracking database to identify database errors and duplicate records, and to ensure that the implementer correctly applied savings algorithms and assumptions stated in the IL-TRM V12.0 and the IL-TRM V12.0 errata document. In particular, we applied the algorithms and assumptions provided in the IL-TRM V12.0, while using project-specific data from the initiative tracking databases as inputs where appropriate. As part of this process, we also verified measure installations through analysis of initiative tracking databases, as well as through the review of supporting project documentation.

### Application of Custom Impact Methods

The Custom and RCx initiatives and a small number of Standard Initiative measures are not suitable for gross impact analysis solely using the IL-TRM. These initiatives require custom energy savings calculations to determine some or all gross impacts. Further details on the custom impact methods applied for these initiatives are presented in the *2024 AIC Business Program Annual Impact Evaluation Report*.

### Carryover Savings

In addition to savings achieved by AIC’s portfolio through measures delivered during the 2024 program year, AIC also claimed savings in 2024 from lighting measures distributed by the portfolio in prior years but not installed until 2024. The relevant initiatives include:

* Residential Program
	+ 2022 Retail Products Initiative
	+ 2022 Income Qualified Initiative
	+ 2022 Kits Initiatives
* Business Program
	+ 2022 and 2023 Midstream Initiative

Carryover savings are estimated primarily based on assumptions outlined in the IL-TRM V12.0, which recommends application of assumptions from the IL-TRM V10.0 and IL-TRM V10.0 errata measures memo.[[4]](#footnote-4) We reported previously on AIC’s 2024 carryover savings as part of an earlier memo.[[5]](#footnote-5)

## Verified Net Impact Analysis Approach

To determine verified net savings for the 2024 AIC portfolio, we generally applied SAG-approved NTGRs[[6]](#footnote-6) to verified gross savings, with three exceptions:

* For the Market Rate Single Family Initiative’s Midstream HVAC channel, we estimated net savings associated with market effects resulting from channel influences on sales of non-incentivized energy-efficient equipment, which relied on supplementary distributor sales data and primary research with distributors and contractors, as detailed in the *2024 AIC Residential Program Annual Impact Evaluation Report*.
* As detailed in Section 2.3.1 below, in certain cases, we applied NTGRs of 1.000 superseding the SAG-approved NTGRs in alignment with the Illinois Policy Manual Version 3.0.
* Finally, net impact evaluation for the 2024 AIC Residential Program included a non-participant spillover (NPSO) adder to net savings, detailed in Section 2.3.2.

### Disadvantaged Areas Net-to-Gross Policy

Section 7.4 of the Illinois Policy Manual Version 3.0 outlines the NTGR for Disadvantaged Areas policy.[[7]](#footnote-7) The policy recognizes that free ridership among certain types of customers in economically disadvantaged areas is likely very low; therefore, it directs the application of a NTGR of 1.000 for eligible customers, superseding the SAG-approved NTGRs that would otherwise be applied.

* For AIC’s Residential Program, the policy applies to program activity in disadvantaged neighborhoods.[[8]](#footnote-8) A large portion of the Residential Program focuses on serving low-income customers and therefore already uses a NTGR of 1.000 in accordance with Policy Manual Section 7.3 (NTGR for Income Eligible Programs).[[9]](#footnote-9) We do not apply the policy to the Retail Products Initiative because the approach used to establish the portion of Retail Products measures delivered to IQ customers overlaps significantly with the policy.
* For AIC’s Business Program, the policy applies to all program activity involving the following customer segments:
	+ Business customers in disadvantaged neighborhoods with DS-2 and/or GDS-2 rate classes; and
	+ Any general delivery service municipal, public school, and local government customers in a disadvantaged municipality.[[10]](#footnote-10)

Further details on our approach to applying the policy, a list of disadvantaged neighborhoods, and a list of disadvantaged municipalities are available for reference in Opinion Dynamics’ July 2024 presentation to the Illinois SAG.[[11]](#footnote-11)

### Residential Non-Participant Spillover

Net impact evaluation of AIC’s Residential Program includes a NPSO adder to net savings achieved by non-income qualified (non-IQ) efforts. This NPSO adder is 3.1% for non-IQ electric savings (energy and demand) and 4.4% for non-IQ gas savings.[[12]](#footnote-12) Table 6 summarizes verified, non-IQ net savings for AIC’s Residential Program by initiative and computes the NPSO adder as defined above.

Table 6. 2024 Residential Program Verified Net Savings Summary for Non-Income Qualified Initiatives

| Initiative/Channel | Verified Net MWh | Verified Net MW | Verified Net Therms |
| --- | --- | --- | --- |
| Retail Products – Market Rate | 15,927 | 3.15 | 949,852 |
| Retail Products – Market Rate Carryover | 3,706 | 0.49 | N/A |
| Multifamily – Market Rate  | 2,052 | 0.28 | 17,159 |
| Market Rate Single Family – Midstream HVAC | 7,248 | 1.52 | 298,879 |
| Market Rate Single Family – Home Efficiency | 118 | 0.05 | 21,579 |
| *Non-IQ Residential Program Subtotal* | 29,051 | 5.48 | 1,287,468 |
| Residential NPSO Adder | 901 | 0.17 | 56,649 |

## Sources and Mitigation of Error

The evaluation team took steps to mitigate potential sources of error throughout the planning and implementation of the 2024 evaluation. In particular, we considered the below types of error:

* **Analysis Error**
	+ **Prescriptive Gross Impact Calculations**: We calculated gross impacts by applying IL-TRM V12.0 calculations to the participant data in the tracking database. A separate team member reviewed all calculations to verify their accuracy and minimize data analysis errors.
	+ **Custom Gross Impact Calculations**: We determined custom gross impacts using desk reviews and data collected during on-site M&V. To minimize data analysis errors, we had a separate team member review all calculations to verify that calculations were performed accurately.
	+ **Net Impact Calculations:** For net impact calculations, we applied SAG-approved NTGRs to estimated gross impacts to derive net impacts.[[13]](#footnote-13) To minimize analytical errors, all calculations were reviewed by a separate team member to verify their accuracy.
* **Sampling Error:**
	+ **Custom Initiative Impact Sample**: The evaluation team completed an impact review for 44 of 134 Custom Initiative projects achieving savings in 2024, drawing three waves of stratified samples separately for Custom Incentives projects claiming electric and gas savings and a fourth for New Construction Lighting projects. For gross impact results, at the 90% confidence level, we achieved a relative precision of 13.7% for electric energy savings, 41.4% for electric demand savings, and 13.0% for gas savings. Further detail on our methodology for Custom Initiative sampling is provided in the *2024 AIC Business Program Impact Evaluation Report*.
* **Non-Sampling Error:**
	+ **Measurement Error – On-Site M&V:** To minimize data collection error during on-site M&V, the evaluation team used trained engineers and technicians familiar with the equipment covered by the Custom Initiative and Retro-Commissioning Initiative and with the methods used to calculate the gross impacts.
	+ **Measurement Error – Survey and Interview Data:** The validity and reliability of survey and interview data used to estimate market effects associated with the Market Rate Single Family Initiative’s Midstream HVAC channel were addressed through multiple strategies. First, we relied on our experience to create questions that align with the idea or construct they intended to measure (i.e., face value validity). We reviewed the questions to ensure that we did not ask double-barreled questions (i.e., questions that ask about two subjects but allow only one response) or loaded questions (i.e., questions that are slanted one way or the other). We also checked the overall logical flow of the questions to avoid confusing respondents, which would decrease reliability. All data collection instruments were reviewed by key members of the evaluation team and were provided to AIC and ICC Staff for review.
	+ **Nonresponse and Self-Selection Bias:** Survey and interview efforts, such as those used to estimate market effects associated with the Market Rate Single Family Initiative’s Midstream HVAC channel, have the potential for nonresponse bias due to possible differences between those who self-select to respond to surveys and those who do not. We attempted to mitigate this possible bias by sending multiple reminder emails at different times of the day and week and by making training assessment surveys required for training completion.

For the VCx and Virtual SEM channels, we also addressed the following types of error:

* **Errors Due to Presence of Non-Routine Events**: Non-routine events (NREs) refer to changes in facility energy consumption resulting from facility-related changes unrelated to the interventions recommended through the channel. NREs can make it difficult to accurately measure savings using meter-based approaches, including those we used for VCx and Virtual SEM. The evaluation team accounted for NREs in our modeling approach by removing data for the affected period and/or extending the baseline back in time accordingly, consistent with International Performance Measurement and Verification Protocol (IPMVP) Non-Routine Adjustment Options 1 and 3, respectively.[[14]](#footnote-14)
* **Model Specification Error**: In this type of error, variables that predict model outcomes are left out when they should be included, which can produce biased estimates. The models used to estimate ex ante impacts in 2024 excluded weather interaction terms despite the weather-sensitive nature of the interventions, such as HVAC scheduling adjustments. The evaluation team addressed this type of error by modifying the facility-level models in cases where the inclusion of weather interactions improved model fit before producing verified savings.
* **Measurement Error**: In the context of the VCx and Virtual SEM channels, measurement error can occur in two ways: (1) when utility electric meters do not accurately record the true energy consumption of a facility, and (2) when the defined post-period coincides with ongoing program implementation. In practice, little can be done in an evaluation context to mitigate errors from utility meters. However, we know from experience that this type of error is expected to be small and not significantly affect savings estimates. When appropriate and data permitting, the evaluation team re-defined model post-periods to exclude any periods of ongoing program implementation and only considered post-period data after all measures had been implemented.
* **Prediction Error**: Prediction error occurs when the model does not perfectly predict future energy consumption. We did not receive a full year of post-period data for all VCx and Virtual SEM projects in 2024. This introduces uncertainty because the models could not train on a full range of temperature data after the intervention was initiated. This could increase the prediction error for temperatures that are outside the range of the training data. We addressed this by carefully examining model fit diagnostics.
* **Multicollinearity**: This type of modeling error can bias the model results and produce very large variances. We addressed this issue by carefully considering model specifications and data to ensure that there were no multicollinearity issues.

Finally, note that the calculations in some of the tables in this report cannot be exactly reproduced due to rounding.

# Portfolio Verified Savings

## 2024 Residential Program Annual Savings

The 2024 Residential Program achieved 144,038 MWh, 19.92 MW, and 2,643,444 therms in verified net savings. These savings include the NPSO “adder” to net savings, and also include subsection (b-27) electrification conversions, described further in Section 3.4.2.[[15]](#footnote-15) Table 7, Table 8, and Table 9 present ex ante gross, verified gross, and verified net electric energy, electric demand, and gas savings, by Initiative and channel, for the 2024 Residential Program.

Table 7. 2024 Residential Program Electric Energy Annual Savings Summary

| Initiative/Channel | Ex Ante Gross MWh | Gross Realization Rate | Verified Gross MWh | Net-to-Gross Ratio (NTGR) | Verified Net MWh |
| --- | --- | --- | --- | --- | --- |
| Retail Products – Income Qualified | 84,539 | 98% | 82,468 | 0.904 | 74,582 |
| Retail Products – Market Rate | 19,847 | 97% | 19,244 | 0.828 | 15,927 |
| Retail Products – Income Qualified Carryover | 0 |  N/A  | 4,663 | 0.908 | 4,236 |
| Retail Products – Market Rate Carryover | 0 |  N/A  | 5,196 | 0.713 | 3,706 |
| Income Qualified – Single Family | 5,194 | 94% | 4,857 | 1.000 | 4,857 |
| Income Qualified – CAA | 844 | 101% | 852 | 1.000 | 852 |
| Income Qualified – Joint Utility | 166 | 102% | 169 | 1.000 | 169 |
| Income Qualified – Smart Savers | 398 | 98% | 390 | 0.998 | 389 |
| Income Qualified – MHAS  | 293 | 102% | 297 | 1.000 | 297 |
| Income Qualified – Healthier Homes | 37 | 110% | 41 | 1.000 | 41 |
| Income Qualified – Electrification | 358 | 102% | 365 | 1.000 | 365 |
| Income Qualified – Carryover | 0 |  N/A  | 32 | 1.000 | 32 |
| Multifamily – Income Qualified  | 11,776 | 95% | 11,136 | 1.000 | 11,136 |
| Multifamily – Market Rate  | 2,160 | 100% | 2,159 | 0.950 | 2,052 |
| Multifamily – Public Housing | 1,614 | 85% | 1,371 | 1.000 | 1,371 |
| Market Rate Single Family – Midstream HVAC | 9,885 | 99% | 9,753 | 0.743 | 7,248 |
| Market Rate Single Family – Midstream HVAC Market Effects | 0 |  N/A  | 0 | N/A | 1,597 |
| Market Rate Single Family – Home Efficiency | 146 | 98% | 143 | 0.830 | 118 |
| Kits – Full School Kits | 6,470 | 121% | 7,827 | 1.000 | 7,827 |
| Kits – Joint Utility School Kits | 713 | 144% | 1,028 | 1.000 | 1,028 |
| Kits – High School Innovation | 1,022 | 113% | 1,152 | 1.000 | 1,152 |
| Kits – Income Qualified Community Kits | 1,670 | 100% | 1,665 | 1.000 | 1,665 |
| Kits – Mobile Home Kits | 216 | 100% | 216 | 1.000 | 216 |
| Kits – BN Kits | 110 | 100% | 110 | 1.000 | 110 |
| Kits – Food Bank Holiday Kits | 1,792 | 100% | 1,792 | 1.000 | 1,792 |
| Kits – Carryover | 0 |  N/A  | 373 | 1.000 | 373 |
| *Residential Program Subtotal* | *149,250* | *99%* | *157,298* | *0.910* | *143,138* |
| Residential NPSO Adder |   |   |   |   | 901  |
| Residential Program Total |  |  |  |  | 144,038  |

a Calculations of gross realization rate at the Residential Program level exclude categories of savings with no ex ante savings.

Table 8. 2024 Residential Program Electric Demand Annual Savings Summary

| Initiative/Channel | Ex Ante Gross MW | Gross Realization Rate | Verified Gross MW | NTGR | Verified Net MW |
| --- | --- | --- | --- | --- | --- |
| Retail Products – Income Qualified | 18.14 | 57% | 10.39 | 0.908 | 9.43 |
| Retail Products – Market Rate | 4.02 | 99% | 4.00 | 0.787 | 3.15 |
| Retail Products – Income Qualified Carryover | 0.00 |  N/A  | 0.60 | 0.908 | 0.55 |
| Retail Products – Market Rate Carryover | 0.00 |  N/A  | 0.69 | 0.713 | 0.49 |
| Income Qualified – Single Family | 0.98 | 96% | 0.94 | 1.000 | 0.94 |
| Income Qualified – CAA | 0.20 | 1.01 | 0.20 | 1.000 | 0.20 |
| Income Qualified – Joint Utility | 0.08 | 103% | 0.08 | 1.000 | 0.08 |
| Income Qualified – Smart Savers | 0.15 | 100% | 0.15 | 0.997 | 0.15 |
| Income Qualified – MHAS  | 0.06 | 113% | 0.07 | 1.000 | 0.07 |
| Income Qualified – Healthier Homes | 0.02 | 101% | 0.02 | 1.000 | 0.02 |
| Income Qualified – Electrification | 0.01 | 159% | 0.01 | 1.000 | 0.01 |
| Income Qualified – Carryover | 0.00 |  N/A  | 0.004 | 1.000 | 0.004 |
| Multifamily – Income Qualified  | 0.65 | 85% | 0.55 | 1.000 | 0.55 |
| Multifamily – Market Rate  | 0.28 | 100% | 0.28 | 0.984 | 0.28 |
| Multifamily – Public Housing | -0.01 | 147% | -0.01 | 1.000 | -0.01 |
| Market Rate Single Family – Midstream HVAC | 2.04 | 100% | 2.04 | 0.743 | 1.52 |
| Market Rate Single Family – Midstream HVAC Market Effects | 0.00 | N/A | 0.00 | N/A | 0.28 |
| Market Rate Single Family – Home Efficiency | 0.06 | 100% | 0.06 | 0.840 | 0.05 |
| Kits – Full School Kits | 0.99 | 116% | 1.15 | 1.000 | 1.15 |
| Kits – Joint Utility School Kits | 0.15 | 96% | 0.15 | 1.000 | 0.15 |
| Kits – High School Innovation | 0.15 | 105% | 0.16 | 1.000 | 0.16 |
| Kits – Income Qualified Community Kits | 0.22 | 98% | 0.21 | 1.000 | 0.21 |
| Kits – Mobile Home Kits | 0.03 | 100% | 0.03 | 1.000 | 0.03 |
| Kits – BN Kits | 0.01 | 100% | 0.01 | 1.000 | 0.01 |
| Kits – Food Bank Holiday Kits | 0.23 | 100% | 0.23 | 1.000 | 0.23 |
| Kits – Carryover | 0.00 |  N/A  | 0.04 | 1.000 | 0.04 |
| *Residential Program Subtotal* | *28.46* | *73%* | *22.06* | *0.895* | *19.75* |
| Residential NPSO Adder |  |  |  |  | 0.17 |
| Residential Program Total |  |  |  |  | 19.92 |

a Calculations of gross realization rate at the Residential Program level exclude categories of savings with no ex ante savings.

Table 9. 2024 Residential Program Gas Annual Savings Summary

| Initiative/Channel | Ex Ante Gross Therms | Gross Realization Rate | Verified Gross Therms | NTGR | Verified Net Therms |
| --- | --- | --- | --- | --- | --- |
| Retail Products – Income Qualified | 492,594 | 101% | 495,312 | 1.000 | 495,312 |
| Retail Products – Market Rate | 1,068,064 | 100% | 1,066,142 | 0.891 | 949,852 |
| Income Qualified – Single Family | 352,182 | 100% | 353,137 | 1.000 | 353,137 |
| Income Qualified – CAA | 320 | 100% | 320 | 1.000 | 320 |
| Income Qualified – Smart Savers | 53,473 | 101% | 53,902 | 0.999 | 53,821 |
| Income Qualified – MHAS  | 39,289 | 100% | 39,290 | 1.000 | 39,290 |
| Income Qualified – Healthier Homes | 8,560 | 99% | 8,487 | 1.000 | 8,487 |
| Multifamily – Income Qualified  | 51,797 | 98% | 50,990 | 1.000 | 50,990 |
| Multifamily – Market Rate  | 16,890 | 102% | 17,185 | 0.998 | 17,159 |
| Multifamily – Public Housing | 15,501 | 98% | 15,182 | 1.000 | 15,182 |
| Market Rate Single Family – Midstream HVAC | 359,002 | 100% | 358,933 | 0.833 | 298,879 |
| Market Rate Single Family – Midstream HVAC Market Effects | N/A | N/A | N/A | N/A | 18,603 |
| Market Rate Single Family – Home Efficiency | 26,824 | 97% | 26,131 | 0.826 | 21,579 |
| Kits – Full School Kits | 204,325 | 97% | 197,204 | 1.000 | 197,204 |
| Kits – High School Innovation | 30,435 | 76% | 23,235 | 1.000 | 23,235 |
| Kits – Income Qualified Community Kits | 40,955 | 100% | 40,947 | 1.000 | 40,947 |
| Kits – Mobile Home Kits | 2,799 | 100% | 2,799 | 1.000 | 2,799 |
| *Residential Program Subtotal* | *2,763,010* | *100%* | *2,749,195* | *0.941* | *2,586,796* |
| Residential NPSO Adder |  |  |  |  | 56,649 |
| Residential Program Total |   |   |   |   | 2,643,444 |

a Calculations of gross realization rate at the Residential Program level exclude categories of savings with no ex ante savings.

## 2024 Business Program Annual Savings

The 2024 Business Program achieved 175,338 MWh, 26.90 MW, and 2,888,619 therms in verified net savings. Table 10, Table 11, and Table 12 present ex ante gross, verified gross, and verified net electric energy, electric demand, and gas savings, by initiative and channel, for the 2024 Business Program.

Table 10. 2024 Business Program Electric Energy Annual Savings Summary

| Initiative/Channel | Ex Ante Gross MWh | Gross Realization Rate | Verified Gross MWh | Net-to-Gross Ratio (NTGR) | Verified Net MWh |
| --- | --- | --- | --- | --- | --- |
| Standard - Core | 64,643 | 97% | 62,825 | 0.906 | 56,903 |
| Standard - OS | 2,465 | 99% | 2,439 | 0.963 | 2,349 |
| Standard - BOC | 1,137 | 88% | 1,003 | N/A | 1,003 |
| Custom - Custom Incentives | 39,928 | 89% | 35,646 | 0.814 | 29,021 |
| Custom - New Construction Lighting | 1,474 | 94% | 1,388 | 0.791 | 1,098 |
| Retro-Commissioning - Core | 1,841 | 100% | 1,832 | 0.945 | 1,730 |
| Retro-Commissioning - VCx | 4,571 | 108% | 4,956 | 0.937 | 4,642 |
| Retro-Commissioning - Virtual SEM | 803 | 103% | 831 | 1.000 | 831 |
| Streetlighting - MOSL | 50 | 100% | 50 | 0.690 | 35 |
| Streetlighting - UOSL | 12,516 | 100% | 12,516 | 1.000 | 12,516 |
| Small Business - SBDI | 35,027 | 100% | 35,017 | 0.917 | 32,099 |
| Small Business - SBEP | 332 | 67% | 223 | 1.000 | 223 |
| Midstream - Lighting | 28,461 | 104% | 29,561 | 0.979 | 28,949 |
| Midstream - HVAC | 405 | 97% | 394 | 0.701 | 276 |
| Midstream - Food Service | 575 | 86% | 496 | 0.863 | 428 |
| Midstream - Lighting Carryovera | 0 | N/A | 3,543 | 0.913 | 3,235 |
| LLLC Pilot | 0 | N/A | 0 | N/A | 0 |
| Business Program Total | 194,226 | 97% | 192,719 | 0.910 | 175,338 |

Table 11. 2024 Business Program Electric Demand Annual Savings Summary

| Initiative/Channel | Ex Ante Gross MW | Gross Realization Rate | Verified Gross MW | NTGR | Verified Net MW |
| --- | --- | --- | --- | --- | --- |
| Standard - Core | 11.82 | 99% | 11.64 | 0.908 | 10.57 |
| Standard - OS | 0.52 | 100% | 0.52 | 0.918 | 0.48 |
| Standard - BOC | 0.12 | 88% | 0.11 | N/A | 0.11 |
| Custom - Custom Incentives | 4.04 | 90% | 3.63 | 0.830 | 3.00 |
| Custom - New Construction Lighting | 0.28 | 99% | 0.28 | 0.792 | 0.22 |
| Retro-Commissioning - Core | 0.05 | 79% | 0.04 | 0.945 | 0.04 |
| Retro-Commissioning - VCx | 0.00 | N/A | 0.00 | N/A | 0.00 |
| Retro-Commissioning - Virtual SEM | 0.00 | N/A | 0.00 | N/A | 0.00 |
| Streetlighting - MOSL | 0.00 | N/A | 0.00 | N/A | 0.00 |
| Streetlighting - UOSL | 0.00 | N/A | 0.00 | N/A | 0.00 |
| Small Business - SBDI | 5.75 | 99% | 5.71 | 0.918 | 5.25 |
| Small Business - SBEP | 0.11 | 92% | 0.11 | 1.000 | 0.11 |
| Midstream - Lighting | 6.74 | 95% | 6.37 | 0.979 | 6.24 |
| Midstream - HVAC | 0.10 | 105% | 0.10 | 0.696 | 0.07 |
| Midstream - Food Service | 0.08 | 55% | 0.05 | 0.853 | 0.04 |
| Midstream - Lighting Carryovera | 0.00 | N/A | 0.84 | 0.917 | 0.77 |
| LLLC Pilot | 0.00 | N/A | 0.00 | N/A | 0.00 |
| Business Program Total | 29.62 | 96% | 29.39 | 0.915 | 26.90 |

Table 12. 2024 Business Program Gas Annual Savings Summary

| Initiative/Channel | Ex Ante Gross Therms | Gross Realization Rate | Verified Gross Therms | NTGR | Verified Net Therms |
| --- | --- | --- | --- | --- | --- |
| Standard - Core | 1,555,181 | 100% | 1,560,052 | 0.717 | 1,119,276 |
| Standard - OS | 107,812 | 100% | 107,812 | 0.910 | 98,062 |
| Standard - BOC | 16,100 | 86% | 13,800 | N/A | 13,800 |
| Custom - Custom Incentives | 1,454,451 | 130% | 1,892,411 | 0.834 | 1,577,836 |
| Custom - New Construction Lighting | 0 | N/A | 0 | N/A | 0 |
| Retro-Commissioning - Core | 0 | N/A | 0 | N/A | 0 |
| Retro-Commissioning - VCx | 0 | N/A | 0 | N/A | 0 |
| Retro-Commissioning - Virtual SEM | 0 | N/A | 0 | N/A | 0 |
| Streetlighting - MOSL | 0 | N/A | 0 | N/A | 0 |
| Streetlighting - UOSL | 0 | N/A | 0 | N/A | 0 |
| Small Business - SBDI | 0 | N/A | 0 | N/A | 0 |
| Small Business - SBEP | 18,280 | 106% | 19,319 | 1.000 | 19,319 |
| Midstream - Lighting | 0 | N/A | 0 | N/A | 0 |
| Midstream - HVAC | 7,469 | 95% | 7,129 | 0.864 | 6,156 |
| Midstream - Food Service | 54,799 | 114% | 62,568 | 0.866 | 54,170 |
| Midstream - Lighting Carryovera | 0 | N/A | 0 | N/A | 0 |
| LLLC Pilot | 0 | N/A | 0 | N/A | 0 |
| Business Program Total | 3,214,092 | 114% | 3,663,091 | 0.789 | 2,888,619 |

## 2024 Voltage Optimization Program Annual Savings

The 2024 Voltage Optimization Program achieved 77,169 MWh and 13.66 MW in verified net savings. Table 13 presents ex ante gross, verified gross, and verified net savings for the 2024 Voltage Optimization Program.

Table 13. 2024 Voltage Optimization Program Annual Savings Summary

|  | Energy Savings (MWh) | Peak Demand Savings (MW) | Gas Savings (Therms) |
| --- | --- | --- | --- |
| Ex Ante Gross Savingsa | 70,743 | N/A | N/A |
| Gross Realization Rate | 109% | N/A | N/A |
| Verified Gross Savings | 77,169 | 13.66 | N/A |
| NTGR | N/A | N/A | N/A |
| Verified Net Savings  | 77,169 | 13.66 | N/A |

a Ex ante energy savings sourced from AIC. Ex ante gross savings assume 0.80 CVR factor and 3.2% voltage reduction across the 214 measured circuits.

b There are no ex ante peak demand savings estimates for this program.

## Savings Conversions

In certain circumstances, Illinois state law and the Illinois Energy Efficiency Policy Manual allow electric utilities to claim energy savings achieved from fossil fuels against their AAIG and CPAS goals. This section details the mechanisms (referred to as “conversions”) through which Illinois electric utilities may claim these savings toward their goals and presents the results of AIC’s 2024 use of these mechanisms.

### Subsection (b-25) Conversions

#### Background

Subsection (b-25) of Section 8-103B[[16]](#footnote-16) allows Illinois electric utilities to convert fossil fuel savings achieved through energy efficiency programs funded with electric dollars to electric energy savings on an equivalent British thermal unit (Btu) basis for the premises in certain situations. There is an annual cap on (b-25) conversions; no more than 10% of the electric utility’s applicable annual total savings requirement (AATS) may be met via (b-25) conversions each year. For AIC, these conversions can include natural gas provided by AIC (savings of which could also be counted toward AIC’s 8-104 goals) and natural gas not provided by AIC or delivered fuels such as propane (savings of which could not be counted toward AIC’s 8-104 goals).

#### 2024 Results

In 2024, AIC identified savings achieved by a number of initiatives for (b-25) conversions. Per Illinois state law, AIC was capped at a total conversion of no more than 42,428 MWh. Using the SAG-approved conversion factor of 29.3 kWh per therm, this equals 1,448,068 therms that could be converted to electric savings.

In 2024, AIC provided us with tracking data that identified savings for conversions. After evaluation, we determined that savings identified for conversion by AIC were in excess of the conversion cap, and therefore we prioritized savings for conversion in line with legislation and AIC guidance. Table 14 presents a summary of AIC’s 2024 (b-25) savings conversions.

Table 14. 2024 AIC (b-25) Conversions

| Initiative | Channel | AIC Gas Therms Converted | Non-AIC Gas Therms Converted | Propane Therms Converted | MWh Equivalent |
| --- | --- | --- | --- | --- | --- |
| Income Qualified | Retail Products | 0 | 0 | 31,374 | 919 |
| Income Qualified | Single Family | 0 | 582 | 278 | 25 |
| Income Qualified | CAA | 0 | 320 | 109 | 13 |
| Income Qualified | Joint Utility | 0 | 454 | 0 | 13 |
| Income Qualified | Smart Savers | 0 | 85 | 487 | 17 |
| Market Rate Single Family | Home Efficiency | 0 | 89 | 11 | 3 |
| Custom | Custom Incentives | 0 | 1,414,278 | 0 | 41,438 |
| Total | 1,448,068 | 42,428 |
| *Conversion Cap* | *1,448,068* | *42,428* |
| *% of Cap* | *100.0%* | *100.0%* |

AIC achieved 1,448,068 therms of savings allowed to be converted in 2024, all of which came from sources other than AIC-provided natural gas (e.g. non-AIC gas or propane). Therefore, AIC achieved 42,428 MWh of (b-25) conversion savings that can be counted against its AAIG in 2024, while not incurring any penalties against its natural gas goals.

### Subsection (b-27) and Policy Manual Section 12.3 Conversions

#### Background

Subsection (b-27) of Section 8-103B[[17]](#footnote-17) allows Illinois electric utilities to offer and promote measures that electrify enduses that would otherwise be served by combustion of fossil fuel at the premises, provided that the electrification measures reduce total energy consumption at the premises. When these measures are offered, the electric utility may count net Btu savings achieved at the premises[[18]](#footnote-18) in kWh toward its electric savings goals. There is an annual cap on (b-27) conversions; in 2024, no more than 5% of the electric utility’s AATS may be met via (b-27) conversions. In addition, a minimum of 25% of all electrification savings counted toward the utility’s goals each year must be from electrification of enduses in low income housing.

In addition, Illinois Energy Efficiency Policy Manual Section 12.3 directs that savings from weatherization activities conducted at a site receiving electrification of space heats shall be calculated as fossil fuel savings consistent with the weatherized site's pre-existing condition but converted to kWh equivalents for the purpose of goal attainment.[[19]](#footnote-19)

#### 2024 Results

In 2024, AIC conducted limited electrification efforts under subsection (b-27) for the first time. These efforts were focused solely on low-income residential customers and are captured in the Electrification section of the *2024 AIC Residential Program Impact Evaluation Report*. Table 15 presents a summary of electrification savings achieved by the 2024 AIC portfolio by category and compares them, where relevant, to the subsection (b-27) caps.

Table 15. 2024 AIC Electrification Savings

| Initiative | Channel | 8-103B Subsection (b-27) Savings Achieved (MWh Equivalents) | Policy Manual Section 12.3 Savings Achieved (MWh Equivalents) |
| --- | --- | --- | --- |
| Low Income | Non-Low Income |
| Income Qualified | Electrification | 261 | 0 | 61 |
| Total | 261 | 0 | 61 |
| *(b-27) Non-Low Income Cap* |  | *783* |  |
| *% of Non-Low Income Cap* | *0.0%* |
| *Overall (b-27 Cap)* | *21,214* |
| *% of Overall Cap* | *1.2%* |

AIC achieved 261 MWh of (b-27) savings in 2024, all of which were in low income housing. This was substantially less than the subsection (b-27) cap of 21,214 MWh and therefore AIC is able to count all of these savings towards it AAIG. In addition, AIC achieved 61 MWh of Policy Manual Section 12.3 savings in 2024; these savings are uncapped and counted toward AAIG. All electrification savings are presented as claimed toward goals in the *2024 AIC Residential Program Impact Evaluation Report* and in Section 3.1 above. The *2024 AIC Residential Program Impact Evaluation Report* also presents the at-the-meter impacts of these programmatic efforts in Appendix B.

# Portfolio Economic and Employment Impacts

The Illinois Energy Efficiency Policy Manual (“the Policy Manual”) Version 3.0 requires that each program administrator in Illinois annually report estimates of the economic development and employment impacts of its energy efficiency programs.[[20]](#footnote-20) In accordance with that requirement, this section includes a summary of the economic and employment impacts produced by AIC's energy efficiency portfolio in 2024, as well as the inputs used to estimate these results.

The methodology used in this analysis is consistent with that developed by consensus with the Illinois Stakeholder Advisory Group Non-Energy Impacts Working Group and used in previous analyses.

Table 16 presents the cumulative economic and employment impacts resulting from AIC's 2024 energy efficiency programs. Further analytical details are available on request.

Table 16. 2024 AIC Portfolio Job and Macroeconomic Impacts

| Impact Category | Direct | Indirect | Induced | Total |
| --- | --- | --- | --- | --- |
| Industry Output |  |  |  |  |
| Employment (Job-Years) |  |  |  |  |
| Labor Income |  |  |  |  |

1. 2024 Detailed Verified Savings Results

'Table 17 and Table 18 present the detailed verified savings results tables for the 2024 AIC portfolio.

Table 17. 2024 Detailed Verified Savings Results – Electric

| Initiative | Channel | Ex Ante Gross | Realization Rate | Verified Gross | Deemed/ Used | Verified Net | Actual | Evaluation Estimate(Where Available) | Participation | WAML |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Year Annual Energy Savings | Energy Savings (Ex Ante Gross / Verified Gross) | First Year Annual Energy Savings | First Year Peak Demand Savings | Lifetime Savings | NTGR | First Year Annual Savings | First Year Peak Demand Savings | Lifetime Savings | First Year Cost per First Year Annual Savings | First Year Cost per Lifetime Savings | Program Costs | NTGR | # Units | Units Definition | Years |
| MWh | % | MWh | MW | MWh | % | MWh | MW | MWh | $/MWh | $/MWh | $ | % |
| Residential Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Income Qualified |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Market Rate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Income Qualified Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Market Rate Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Single Family |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | CAA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Joint Utility |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Smart Savers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | MHAS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Healthier Homes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Electrification |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily  | Income Qualified |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily  | Market Rate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily  | Public Housing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Rate Single Family  | Midstream HVAC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Rate Single Family  | Midstream HVAC Market Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Rate Single Family  | Home Efficiency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Full School Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Joint Utility School Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | High School Innovation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Income Qualified Community Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Mobile Home Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | BN Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Food Bank Holiday Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Residential NPSO Adder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Business Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard | Core |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard | Online Store |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard | BOC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Custom | Custom Incentives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Custom | New Construction Lighting |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retro-Commissioning | Core |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retro-Commissioning | Virtual Commissioning |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retro-Commissioning | Virtual SEM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Streetlighting | MOSL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Streetlighting | UOSL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small Business | SBDI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small Business | SBEP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | Lighting |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | HVAC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | Food Service |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Transformation | LLLC Pilot |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Voltage Optimization Program | 71,264 | 117% | 83,416 | 13.10 | 1,251,236 | 1.000 | 83,416 | 13.10 | 1,251,236 |   |   |   | N/A | 191 | Circuits | 15.0 |
| Voltage Optimization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Portfolio Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12.7 |

Savings presented reflect actual savings achieved by the programs and do not reflect Illinois state law-allowed conversions used in determining goal attainment [(b-25) or (b-27) conversions].

Program costs presented in the “Portfolio Total” row include unallocated portfolio-level administrative cost and therefore are in excess of the sums of the individual rows.

Table 18. 2024 Detailed Verified Savings Results – Gas

| Initiative | Channel | Ex Ante Gross | Realization Rate | Verified Gross | Deemed/ Used | Verified Net | Actual | Evaluation Estimate(Where Available) | Participation | WAML |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Year Annual Energy Savings | Energy Savings (Ex Ante Gross / Verified Gross) | First Year Annual Energy Savings | Lifetime Savings | NTGR | First Year Annual Savings | Lifetime Savings | First Year Cost per First Year Annual Savings | First Year Cost per Lifetime Savings | Program Costs | NTGR | # Units | Units Definition | Years |
| Therms | % | Therms | Therms | % | Therms | Therms | $/Therm | $/Therm | $ | % |
| Residential Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Income Qualified |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Market Rate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Income Qualified Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retail Products  | Market Rate Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Single Family |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | CAA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Joint Utility |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Smart Savers |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | MHAS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Healthier Homes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Electrification |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Income Qualified  | Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily  | Income Qualified |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily  | Market Rate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily  | Public Housing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Rate Single Family  | Midstream HVAC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Rate Single Family  | Midstream HVAC Market Effects |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Rate Single Family  | Home Efficiency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Full School Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Joint Utility School Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | High School Innovation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Income Qualified Community Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Mobile Home Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | BN Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Food Bank Holiday Kits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kits  | Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Residential NPSO Adder |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Business Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard | Core |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard | Online Store |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Standard | BOC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Custom | Custom Incentives |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Custom | New Construction Lighting |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retro-Commissioning | Core |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retro-Commissioning | Virtual Commissioning |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Retro-Commissioning | Virtual SEM |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Streetlighting | MOSL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Streetlighting | UOSL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small Business | SBDI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Small Business | SBEP |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | Lighting |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | HVAC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | Food Service |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Midstream | Carryover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Market Transformation | LLLC Pilot |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Voltage Optimization Program |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Voltage Optimization |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Portfolio Total |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Savings presented reflect actual savings achieved by the programs and do not reflect Illinois state law-allowed conversions used in determining goal attainment [(b-25) or (b-27) conversions].

Program costs presented in the “Portfolio Total” row include unallocated portfolio-level administrative cost and therefore are in excess of the sums of the individual rows.

1. 2024 Program Evaluation Reports

The 2024 Residential Program, Business Program, and Voltage Optimization Program Impact Evaluation Reports, as well as the 2024 AIC Carryover Savings Memo are available under separate cover on the Illinois Stakeholder Advisory Group website (<https://www.ilsag.info>).

1. 2024 Cumulative Persisting Annual Savings

This appendix presents detailed CPAS for the AIC portfolio by initiative. Due to many years of CPAS, the tables can be challenging to read; please reference the separately provided CPAS spreadsheet for additional detail as needed. Table 19 presents CPAS for the 2024 AIC portfolio through 2074 at the initiative level. Lifetime savings for the 2024 AIC portfolio are 6,193,212 MWh.

Table 19. 2024 AIC Portfolio CPAS and WAML

| Initiative | WAML | Annual Verified Gross Savings (MWh) | NTGR | CPAS – Verified Net Savings (MWh) |
| --- | --- | --- | --- | --- |
| 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 |
| Retail Products Initiative | 9.2 | 101,713 | 0.890 | 90,509 | 90,509 | 90,509 | 90,509 | 90,502 | 90,486 | 90,486 | 84,325 | 30,707 | 26,097 | 22,918 | 8,586 | 7,717 | 7,717 | 7,432 | 790 | 600 |
| Income Qualified Initiative - Single Family Offerings | 15.3 | 6,972 | 1.000 | 6,971 | 6,971 | 6,971 | 6,970 | 6,970 | 6,970 | 6,161 | 5,835 | 5,171 | 4,430 | 4,034 | 3,406 | 3,397 | 3,397 | 3,397 | 2,977 | 1,543 |
| Multifamily Initiatives | 13.0 | 14,665 | 0.993 | 14,558 | 14,558 | 14,558 | 14,558 | 14,558 | 14,558 | 14,288 | 13,970 | 12,854 | 11,659 | 9,183 | 6,831 | 6,831 | 6,831 | 6,831 | 6,425 | 386 |
| Market Rate Single Family Initiative | 16.1 | 11,492 | 0.780 | 8,964 | 8,964 | 8,964 | 8,964 | 8,964 | 8,964 | 8,964 | 8,964 | 8,964 | 8,964 | 8,949 | 8,639 | 8,639 | 8,639 | 8,639 | 8,170 | 944 |
| Kits Initiatives | 9.3 | 13,789 | 1.000 | 13,789 | 13,789 | 12,825 | 12,825 | 12,825 | 12,825 | 12,825 | 11,241 | 6,280 | 6,280 | 1,477 | 1,477 | 1,477 | 1,477 | 1,477 | 1,017 | 1,017 |
| Residential Carryover | 9.7 | 10,264 | 0.813 | 8,347 | 8,347 | 8,347 | 8,347 | 6,351 | 6,206 | 6,139 | 4,998 | 4,944 | 4,944 | 72 | 72 | 72 | 72 | 57 | 0 | 0 |
| Residential NPSO | 12.2 | 901 | 0.796 | 901 | 901 | 901 | 901 | 839 | 833 | 831 | 770 | 755 | 719 | 652 | 312 | 296 | 296 | 290 | 236 | 38 |
| Standard Initiative | 12.8 | 66,267 | 0.909 | 60,255 | 60,255 | 60,237 | 60,067 | 59,617 | 59,347 | 58,744 | 57,660 | 52,794 | 52,514 | 49,980 | 40,938 | 28,967 | 27,601 | 27,171 | 4,041 | 295 |
| Custom Initiative | 18.3 | 37,034 | 0.813 | 30,118 | 30,118 | 30,118 | 30,118 | 30,118 | 29,558 | 29,558 | 29,558 | 29,121 | 29,015 | 29,000 | 28,107 | 27,796 | 22,811 | 22,760 | 16,570 | 15,516 |
| Retro-Commissioning Initiative | 7.6 | 7,618 | 0.945 | 7,203 | 7,203 | 7,203 | 7,203 | 7,203 | 7,203 | 7,203 | 3,123 | 1,038 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Streetlighting Initiative | 20.0 | 12,566 | 0.999 | 12,551 | 12,551 | 12,551 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 | 11,851 |
| Small Business Initiative | 13.7 | 35,240 | 0.917 | 32,322 | 32,322 | 32,268 | 31,285 | 30,693 | 30,261 | 29,416 | 28,832 | 28,710 | 28,297 | 27,658 | 24,976 | 20,260 | 18,603 | 18,333 | 7,460 | 223 |
| Midstream Initiative | 14.8 | 30,451 | 0.974 | 29,653 | 29,653 | 29,653 | 29,649 | 29,626 | 29,618 | 29,618 | 29,618 | 29,618 | 29,603 | 29,597 | 29,523 | 29,241 | 29,090 | 23,162 | 2,775 | 9 |
| Business Carryover | 14.6 | 3,543 | 0.913 | 3,235 | 3,235 | 3,235 | 3,235 | 3,197 | 3,195 | 3,190 | 3,138 | 3,138 | 3,138 | 3,137 | 3,137 | 3,137 | 3,137 | 2,501 | 0 | 0 |
| (b-25) Conversions | 24.7 | 52,789 | 0.804 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 42,428 | 41,474 | 41,474 | 41,474 | 41,474 | 42,392 | 42,392 |
| Voltage Optimization Program | 15.0 | 77,169 | 1.000 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 77,169 | 0 | 0 |
| 2024 CPAS |   | 482,472 | 0.910 | 438,973 | 438,973 | 437,937 | 436,079 | 432,911 | 431,471 | 428,870 | 413,480 | 345,543 | 337,108 | 318,104 | 286,498 | 268,324 | 260,165 | 252,543 | 104,704 | 74,816 |
| Expiring 2024 CPAS |  |  |  | 0 | 0 | 1,036 | 1,858 | 3,168 | 1,440 | 2,602 | 15,389 | 67,938 | 8,435 | 19,003 | 31,607 | 18,174 | 8,159 | 7,622 | 147,839 | 29,888 |
| Expired 2024 CPAS |  |  |  | 0 | 0 | 1,036 | 2,894 | 6,062 | 7,502 | 10,103 | 25,493 | 93,430 | 101,865 | 120,869 | 152,475 | 170,649 | 178,808 | 186,430 | 334,269 | 364,157 |

Table 19 (Continued). 2024 AIC Portfolio CPAS and WAML

| Initiative | WAML | Annual Verified Gross Savings (MWh) | NTGR | CPAS – Verified Net Savings (MWh) |
| --- | --- | --- | --- | --- |
| 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 |
| Retail Products Initiative | 9.2 | 101,713 | 0.890 | 600 | 600 | 492 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Income Qualified Initiative - Single Family Offerings | 15.3 | 6,972 | 1.000 | 1,543 | 1,500 | 1,291 | 743 | 743 | 743 | 743 | 743 | 743 | 743 | 743 | 743 | 743 | 0 | 0 | 0 | 0 |
| Multifamily Initiatives | 13.0 | 14,665 | 0.993 | 386 | 386 | 386 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 0 | 0 | 0 | 0 |
| Market Rate Single Family Initiative | 16.1 | 11,492 | 0.780 | 944 | 104 | 89 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 0 | 0 | 0 | 0 |
| Kits Initiatives | 9.3 | 13,789 | 1.000 | 1,017 | 1,017 | 1,017 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Residential Carryover | 9.7 | 10,264 | 0.813 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Residential NPSO | 12.2 | 901 | 0.796 | 38 | 14 | 12 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 |
| Standard Initiative | 12.8 | 66,267 | 0.909 | 295 | 295 | 295 | 295 | 295 | 295 | 154 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Custom Initiative | 18.3 | 37,034 | 0.813 | 14,511 | 13,845 | 13,845 | 12,847 | 12,729 | 12,556 | 3,907 | 3,756 | 601 | 601 | 601 | 601 | 601 | 26 | 26 | 26 | 26 |
| Retro-Commissioning Initiative | 7.6 | 7,618 | 0.945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Streetlighting Initiative | 20.0 | 12,566 | 0.999 | 11,851 | 11,851 | 11,851 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Business Initiative | 13.7 | 35,240 | 0.917 | 223 | 223 | 223 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midstream Initiative | 14.8 | 30,451 | 0.974 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business Carryover | 14.6 | 3,543 | 0.913 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (b-25) Conversions | 24.7 | 52,789 | 0.804 | 42,392 | 42,392 | 42,392 | 42,382 | 42,382 | 41,462 | 41,462 | 41,462 | 24 | 24 | 24 | 24 | 24 | 0 | 0 | 0 | 0 |
| Voltage Optimization Program | 15.0 | 77,169 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2024 CPAS |   | 482,472 | 0.910 | 73,811 | 72,237 | 71,903 | 56,433 | 56,306 | 55,213 | 46,423 | 46,272 | 1,520 | 1,520 | 1,520 | 1,520 | 1,520 | 26 | 26 | 26 | 26 |
| Expiring 2024 CPAS |  |  |  | 1,005 | 1,574 | 334 | 15,470 | 127 | 373,656 | 8,790 | 151 | 44,751 | 0 | 0 | 0 | 0 | 1,495 | 0 | 0 | 0 |
| Expired 2024 CPAS |  |  |  | 365,162 | 366,736 | 367,070 | 382,540 | 382,667 | 383,760 | 392,550 | 392,701 | 437,453 | 437,453 | 437,453 | 437,453 | 437,453 | 438,947 | 438,947 | 438,947 | 438,947 |

Table 19 (Continued). 2024 AIC Portfolio CPAS and WAML

| Initiative | WAML | Annual Verified Gross Savings (MWh) | NTGR | CPAS – Verified Net Savings (MWh) |
| --- | --- | --- | --- | --- |
| 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 |
| Retail Products Initiative | 9.2 | 101,713 | 0.890 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Income Qualified Initiative - Single Family Offerings | 15.3 | 6,972 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Multifamily Initiatives | 13.0 | 14,665 | 0.993 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market Rate Single Family Initiative | 16.1 | 11,492 | 0.780 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kits Initiatives | 9.3 | 13,789 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Residential Carryover | 9.7 | 10,264 | 0.813 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Residential NPSO | 12.2 | 901 | 0.796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Standard Initiative | 12.8 | 66,267 | 0.909 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Custom Initiative | 18.3 | 37,034 | 0.813 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 0 |
| Retro-Commissioning Initiative | 7.6 | 7,618 | 0.945 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Streetlighting Initiative | 20.0 | 12,566 | 0.999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Business Initiative | 13.7 | 35,240 | 0.917 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midstream Initiative | 14.8 | 30,451 | 0.974 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Business Carryover | 14.6 | 3,543 | 0.913 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| (b-25) Conversions | 24.7 | 52,789 | 0.804 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Voltage Optimization Program | 15.0 | 77,169 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2024 CPAS |   | 482,472 | 0.910 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 0 |
| Expiring 2024 CPAS |  |  |  | 0 | 0 | 0 | 56,280 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Expired 2024 CPAS |  |  |  | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,947 | 438,973 |

1. 2024 High Impact Measure List

The 2024 high impact measure list is in development and will be included in the final version of this report.



Contact:

Zach Ross
Director
zross@opiniondynamics.com

1. Illinois Energy Efficiency Stakeholder Advisory Group. *Weighted Average Measure Life Report.* 2018. Accessed at <https://www.ilsag.info/wp-content/uploads/SAG_files/SAG_Reports/SAG_WAML_Report_Final_2-20-18.pdf>. [↑](#footnote-ref-1)
2. Ibid. [↑](#footnote-ref-2)
3. In future years, the evaluation team will apply updated versions of these manuals to the evaluation of this Program as required by law, Illinois Commerce Commission orders, and changes to the manuals themselves. [↑](#footnote-ref-3)
4. Due to changes made to lighting measures in IL-TRM V11.0, the IL-TRM V10.0 and IL-TRM V10.0 errata memo is the final reference source for key lighting assumptions necessary for remaining carryover from certain lighting measures sold prior to 2023. [↑](#footnote-ref-4)
5. Opinion Dynamics. *Ameren Illinois Company Lighting Carryover Savings Claimable in 2024*. Accessed at <https://www.ilsag.info/wp-content/uploads/AIC-2024-Lighting-Carryover-Savings-Memo-FINAL-2025-01-21.pdf>. [↑](#footnote-ref-5)
6. Opinion Dynamics. *Ameren Illinois Company Energy Efficiency Portfolio 2023 Net-to-Gross Ratios* accessed at: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/> [↑](#footnote-ref-6)
7. *Illinois Energy Efficiency Policy Manual V3.0,* Section 7.4. Accessed at <https://www.ilsag.info/wp-content/uploads/IL_EE_Policy_Manual_Version_3.0_Final_11-3-2023.pdf>. [↑](#footnote-ref-7)
8. Areas identified as “income-eligible households” by Illinois Solar for All. [↑](#footnote-ref-8)
9. *Illinois Energy Efficiency Policy Manual V3.0,* Section 7.3. Accessed at <https://www.ilsag.info/wp-content/uploads/IL_EE_Policy_Manual_Version_3.0_Final_11-3-2023.pdf>. [↑](#footnote-ref-9)
10. Municipalities where at least fifty percent (50%) of the municipality is identified as income-eligible through Illinois Solar for All. [↑](#footnote-ref-10)
11. Opinion Dynamics. *Overview of Disadvantaged Areas Net-to-Gross Tracking for Ameren Illinois*. Accessed at <https://www.ilsag.info/wp-content/uploads/SAG-NTGR-for-Disadvantaged-Areas-Presentation_ODC_2024-07-17.pdf>. [↑](#footnote-ref-11)
12. Ibid. [↑](#footnote-ref-12)
13. For the Market Rate Single Family Initiative’s Midstream HVAC channel, we also estimated net savings associated with market effects resulting from channel influences on sales of non-incentivized energy-efficient equipment, which relied on supplementary distributor sales data and primary research with distributors and contractors. [↑](#footnote-ref-13)
14. Webster, Lia. *IPMVP Application Guide on Non-Routine Events and Adjustments*. Efficiency Valuation Organization (EVO). 2020. [↑](#footnote-ref-14)
15. The process of computing savings from the residential NPSO adder is complex. See Section 2.3.1 for more detail. [↑](#footnote-ref-15)
16. 220 ILCS 5/8-103B(b-25). [↑](#footnote-ref-16)
17. 220 ILCS 5/8-103B(b-27). [↑](#footnote-ref-17)
18. The net difference between the decreased fossil fuel usage and the increased electric usage expressed in Btus. [↑](#footnote-ref-18)
19. Illinois Energy Efficiency Stakeholder Advisory Group*. Illinois Energy Efficiency Policy Manual Version 3.0,* Section 12.3. 2023. Accessed at <https://www.ilsag.info/wp-content/uploads/IL_EE_Policy_Manual_Version_3.0_Final_11-3-2023.pdf>. [↑](#footnote-ref-19)
20. Illinois Energy Efficiency Policy Manual Version 3.0, Section 6.7. [↑](#footnote-ref-20)