Opinion Dynamics

AMEREN ILLINOIS COMPANY

2024 INTEGRATED IMPACT EVALUATION REPORT

FINAL

APRIL 30, 2025

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I. 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] 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]
- **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.

I.I 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

[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.

[2] Ibid.

    - 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

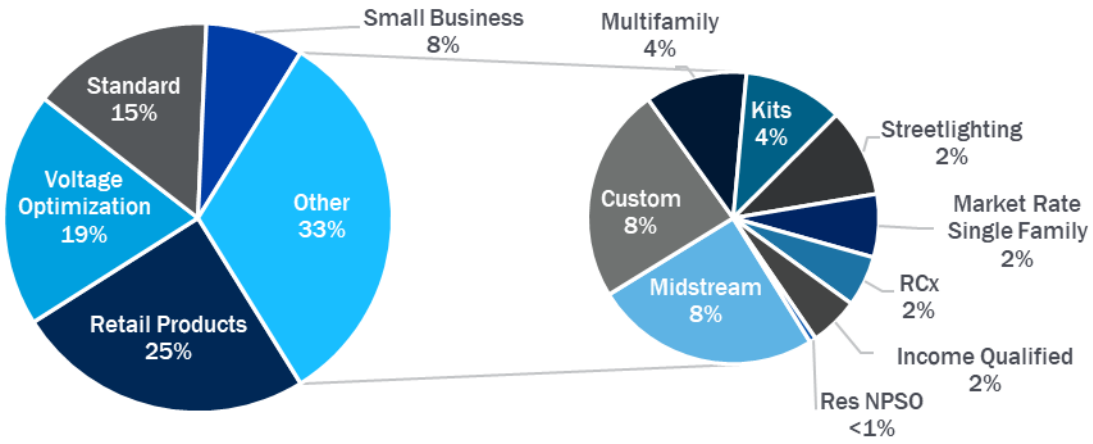
Individual Residential and Business Program initiatives are further split into channels. For more details on the Residential and Business Programs, please see the *2024 AIC Residential Program Annual Impact Evaluation Report* and the *2024 AIC Business Program Annual Impact Evaluation Report*. Note that 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.

1.1.1 2024 PORTFOLIO PERFORMANCE

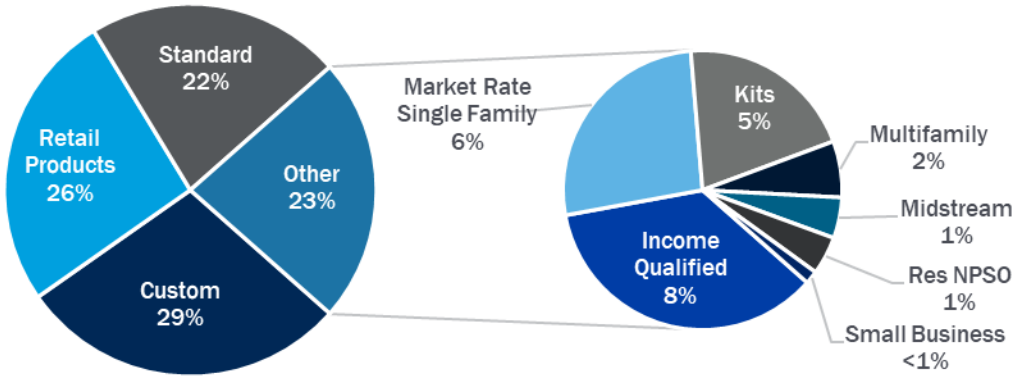
Overall, the portfolio's savings are driven heavily by a small number of initiatives. The Residential Program's Retail Products Initiative (including the Income Qualified Initiative – Retail Products channel), the Voltage Optimization Program, and the Business Program's Standard Initiative together provided more than half (60%) 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



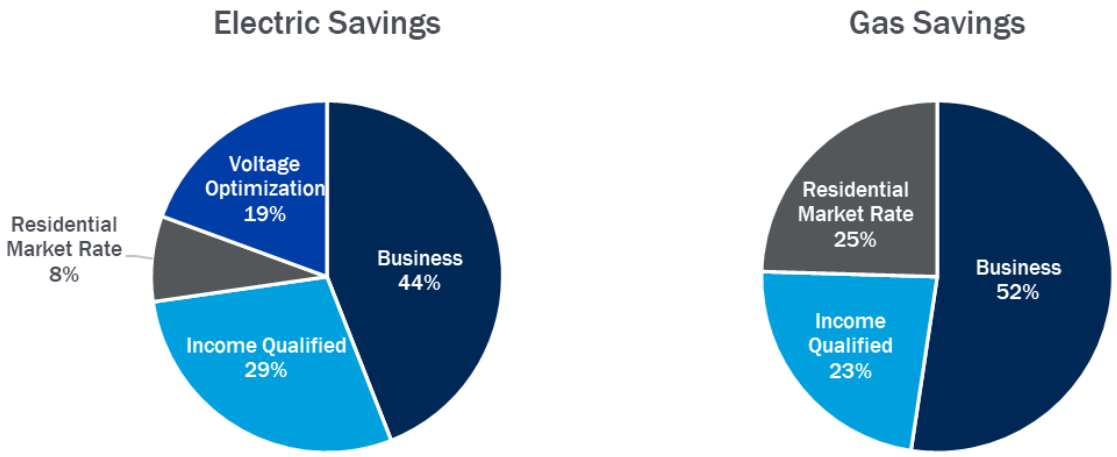
Gas savings are similarly concentrated. Three initiatives (The Business Program's Custom and Standard Initiatives and the Residential Program's Retail Products Initiative) provided over three-quarters (77%) of portfolio gas savings in 2024. Figure 2 shows portfolio verified net gas savings by initiative.

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.

1.2 2024 PORTFOLIO SAVINGS

Overall, AIC's portfolio outperformed its 2024 goals. The portfolio achieved 105% of its AAIG and 109% of its CPAS target. The portfolio WAML is 14.2 years, which is a significant increase compared to the 2023 portfolio, which had a WAML of 12.3 years.

1.2.1 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 Rate[a]	100%	85%	108%
Verified Gross Savings	426,951	65.13	6,436,301
NTGR	0.926	0.926	0.854
Verified Net Savings Before Residential NPSO	395,506	60.31	5,495,777
Residential NPSO Adder	891	0.17	56,623
(b-25) Conversions - Other Fuels	42,428	N/A	0
Verified Net Savings After NPSO and (b-25) Conversions	438,825	60.48	5,552,401

[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.

I.2.2 APPLICABLE ANNUAL INCREMENTAL GOAL ACHIEVEMENT

AIC achieved 105% 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	438,825
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	279,765
2024 AAIG	265,224
% of 2024 AAIG Achieved	**105%**

I.2.3 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 14.3 years including Voltage Optimization and 14.2 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	10.4	159,837	0.902	144,199	144,199	143,235	143,234	...	139,853	...	1,467,046
Business	14.6	192,434	0.910	175,030	175,030	174,957	173,099	...	169,251	...	2,514,931
(b-25) Conversions	24.7	51,280	0.827	42,428	42,428	42,428	42,428	...	42,428	...	1,047,402
Voltage Optimization	15.0	77,169	N/A	77,169	77,169	77,169	77,169	...	77,169	...	1,157,529
2024 CPAS		**480,720**	**0.913**	**438,825**	**438,825**	**437,789**	**435,930**	...	**428,702**	...	**6,186,908**
Expiring 2024 CPAS				**0**	**0**	**1,036**	**1,860**	...	**2,602**	...	
Expired 2024 CPAS				**0**	**0**	**1,036**	**2,896**	...	**10,124**	...	
WAML	**14.3**										
WAML without VO	**14.2**										

I.2.4 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	438,825
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	3,592,897
2024 CPAS Goal	3,310,600
% of 2024 CPAS Goal Achieved	**109%**

2. 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]

2.1 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	✓				✓
	Income Qualified Initiative – Single Family Offerings	✓				✓
	Multifamily Initiatives	✓				✓
	Market Rate Single Family Initiative	✓				✓
	Kits Initiatives	✓				✓
Business Program	Standard Initiative	✓	✓			✓
	Custom Initiative		✓	✓	✓	✓
	Retro-Commissioning Initiative		✓	✓	✓	✓
	Streetlighting Initiative	✓				✓
	Small Business Initiative	✓				✓
	Midstream Initiative	✓				✓
Voltage Optimization Program		✓			✓	✓

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

[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.

2.2 VERIFIED GROSS IMPACT ANALYSIS APPROACH

2.2.1 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.

2.2.2 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*.

2.2.3 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] We reported previously on AIC's 2024 carryover savings as part of an earlier memo.[5]

[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.

[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.

2.3 VERIFIED NET IMPACT ANALYSIS APPROACH

To determine verified net savings for the 2024 AIC portfolio, we generally applied SAG-approved NTGRs[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.

2.3.1 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] 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] 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] 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]

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]

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[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/

[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.

[8] Areas identified as "income-eligible households" by Illinois Solar for All.

[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.

[10] Municipalities where at least fifty percent (50%) of the municipality is identified as income-eligible through Illinois Solar for All.

[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.

2.3.2 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] 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	15,618	3.12	949,276
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	28,743	5.46	1,286,893
Residential NPSO Adder	**891**	**0.17**	**56,623**

2.4 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] 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*.

[12] Ibid.

[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.

- 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]
- **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

[14] Webster, Lia. *IPMVP Application Guide on Non-Routine Events and Adjustments*. Efficiency Valuation Organization (EVO). 2020.

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.

3. PORTFOLIO VERIFIED SAVINGS

3.1 2024 RESIDENTIAL PROGRAM ANNUAL SAVINGS

The 2024 Residential Program achieved 144,199 MWh, 19.99 MW, and 2,643,493 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, but do not include subsection (b-25) conversions as described in Section 3.4.1[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%	82,948	0.905	75,061
Retail Products – Market Rate	19,847	97%	18,816	0.830	15,618
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%	*157,349*	*0.911*	*143,308*
Residential NPSO Adder					891
Residential Program Total					**144,199**

[15] The process of computing savings from the residential NPSO adder is complex. See Section 2.3.1 for more detail.

[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%	10.48	0.909	9.53
Retail Products – Market Rate	4.02	99%	3.96	0.788	3.12
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%*	*22.11*	*0.896*	*19.82*
Residential NPSO Adder					0.17
Residential Program Total					**19.99**

[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%	495,962	1.000	495,962
Retail Products – Market Rate	1,068,064	100%	1,065,268	0.891	949,276
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*	*99%*	*2,748,971*	*0.941*	*2,586,870*
Residential NPSO Adder					56,623
Residential Program Total					**2,643,493**

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

3.2 2024 BUSINESS PROGRAM ANNUAL SAVINGS

The 2024 Business Program achieved 175,030 MWh, 26.84 MW, and 2,908,908 therms in verified net savings. These savings do not include subsection (b-25) conversions as described in Section 3.4.1. 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%	62,829	0.906	56,907
Standard - OS	2,465	99%	2,440	0.963	2,350
Standard - BOC	1,137	88%	1,003	N/A	1,003
Custom - Custom Incentives	39,928	91%	36,191	0.814	29,466
Custom - New Construction Lighting	1,474	94%	1,391	0.791	1,100
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	1.000	50

Initiative/Channel	Ex Ante Gross MWh	Gross Realization Rate	Verified Gross MWh	Net-to-Gross Ratio (NTGR)	Verified Net MWh
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	69%	229	1.000	229
Midstream - Lighting	28,461	101%	28,672	0.981	28,129
Midstream - HVAC	405	100%	405	0.704	285
Midstream - Food Service	575	92%	529	0.863	456
Midstream - Lighting Carryover[a]	0	N/A	3,543	0.913	3,235
LLLC Pilot	0	N/A	0	N/A	0
Business Program Total	**194,226**	**97%**	**192,434**	**0.910**	**175,030**

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	93%	3.77	0.827	3.12
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	96%	0.11	1.000	0.11
Midstream - Lighting	6.74	92%	6.17	0.981	6.06
Midstream - HVAC	0.10	107%	0.10	0.697	0.07
Midstream - Food Service	0.08	59%	0.05	0.854	0.04
Midstream - Lighting Carryover[a]	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%**	**29.36**	**0.914**	**26.84**

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%	1,560,657	0.718	1,119,881
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	132%	1,916,044	0.834	1,597,520
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

Initiative/Channel	Ex Ante Gross Therms	Gross Realization Rate	Verified Gross Therms	NTGR	Verified Net Therms
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 Carryover[a]	0	N/A	0	N/A	0
LLLC Pilot	0	N/A	0	N/A	0
Business Program Total	**3,214,092**	**115%**	**3,687,329**	**0.789**	**2,908,908**

3.3 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 Savings[a]	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.

3.4 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.

3.4.1 SUBSECTION (B-25) CONVERSIONS

BACKGROUND

Subsection (b-25) of Section 8-103B[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

[16] 220 ILCS 5/8-103B(b-25).

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.

3.4.2 SUBSECTION (B-27) AND POLICY MANUAL SECTION I2.3 CONVERSIONS

BACKGROUND

Subsection (b-27) of Section 8-103B[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] 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,

[17] 220 ILCS 5/8-103B(b-27).

[18] The net difference between the decreased fossil fuel usage and the increased electric usage expressed in Btus.

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 heating 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]

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 its 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.

[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.

4. 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] 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	$741,924,468	$324,600,702	$881,181,245	**$1,947,706,416**
Employment (Job-Years)	3,750	1,668	3,963	**9,380**
Labor Income	$181,034,127	$93,404,079	$167,443,939	**$441,882,146**

[20] Illinois Energy Efficiency Policy Manual Version 3.0, Section 6.7.

APPENDIX A. 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	5,194	94%	4,857	0.94	65,068	1.000	4,857	0.94	65,068	$106.15	$11.99	$7,967,546.33	N/A	1,709,011	Measures incented	8.8
Retail Products	Market Rate	166	102%	169	0.08	2,561	1.000	169	0.08	2,561	$321.32	$29.50	$5,018,430.72	Varies	173,244	Measures incented	11.0
Retail Products	Income Qualified Carryover	110	100%	110	0.01	860	1.000	110	0.01	860	N/A	N/A	N/A	N/A	N/A	N/A	10.0
Retail Products	Market Rate Carryover	844	101%	852	0.20	14,056	1.000	852	0.20	14,056	N/A	N/A	N/A	N/A	N/A	N/A	9.4
Income Qualified	Single Family	1,792	100%	1,792	0.23	13,677	1.000	1,792	0.23	13,677	$3,947.63	$296.01	$20,273,688.71	N/A	2,946	Customers served	14.8
Income Qualified	Joint Utility	398	98%	390	0.15	505	0.998	389	0.15	504				N/A	99	Customers served	17.9
Kits	BN Kits	293	102%	297	0.07	4,283	1.000	297	0.07	4,283				N/A	230	Kits	7.9
Income Qualified	CAA	216	100%	216	0.03	9,825	1.000	216	0.03	9,825	$1,318.96	$125.74	$3,487,249.29	N/A	216	Customers served	17.9
Kits	Food Bank Holiday Kits	37	110%	41	0.02	4,859	1.000	41	0.02	4,859				N/A	7,000	Kits	7.6
Income Qualified	Smart Savers	358	102%	365	0.01	5,996	1.000	365	0.01	5,996	$1,793.57	$1,384.19	$698,321.03	N/A	904	Thermostats	15.7
Income Qualified	MHAS	0	N/A	32	0.00	293	1.000	32	0.00	293	$3,078.49	$112.08	$1,581,173.08	N/A	100	Customers served	11.0
Kits	Mobile Home Kits	11,776	95%	11,136	0.55	141,243	1.000	11,136	0.55	141,243				N/A	330	Kits	9.6
Income Qualified	Healthier Homes	2,160	100%	2,159	0.28	25,439	0.950	2,052	0.28	24,176	$29,561.04	$249.78	$1,213,704.58	N/A	16	Customers served	17.3
Income Qualified	Electrification	1,614	85%	1,371	-0.01	20,106	1.000	1,371	-0.01	20,106	$1,714.55	$104.28	$625,213.94	N/A	20	Customers served	17.8
Income Qualified	Carryover	9,885	99%	9,753	2.04	156,140	0.743	7,248	1.52	116,040	N/A	N/A	N/A	N/A	N/A	N/A	10.0
Multifamily	Income Qualified	N/A	N/A	N/A	N/A	N/A	N/A	1,597	0.28	25,145	$867.78	$68.42	$9,663,818.13	N/A	8,210	Tenant units	12.9
Multifamily	Market Rate	146	98%	143	0.06	3,361	0.830	118	0.05	2,791	$301.54	$25.59	$618,624.36	No research	2,057	Tenant units	12.1
Multifamily	Public Housing	6,470	121%	7,827	1.15	74,254	1.000	7,827	1.15	74,254	$1,214.74	$82.80	$1,664,817.12	N/A	1,391	Tenant units	14.7
Market Rate Single Family	Midstream HVAC	713	144%	1,028	0.15	12,535	1.000	1,028	0.15	12,535	$640.10	$39.98	$4,639,474.30	Varies	9,007	Measures rebated	16.0
Market Rate Single Family	MHVAC Market Effects	1,022	113%	1,152	0.16	15,073	1.000	1,152	0.16	15,073	N/A	N/A	N/A	N/A	N/A	N/A	15.7
Market Rate Single Family	Home Efficiency	1,670	100%	1,665	0.21	1,769	1.000	1,665	0.21	1,769	$3,070.33	$130.19	$363,299.65	No research	158	Customers served	25.7
Kits	Full School Kits	0	N/A	373	0.04	3,408	1.000	373	0.04	3,408	$102.12	$10.42	$904,276.59	N/A	9,500	Kits	9.5
Kits	Joint Utility School Kits	5,194	94%	4,857	0.94	65,068	1.000	4,857	0.94	65,068				N/A	1,500	Kits	10.9
Kits	High School Innovation	166	102%	169	0.08	2,561	1.000	169	0.08	2,561	$173.60	$13.27	$199,978.92	N/A	2,513	Kits	9.1
Kits	IQ Community Kits	110	100%	110	0.01	860	1.000	110	0.01	860	$311.68	$293.29	$518,872.51	N/A	3,000	Kits	8.2
Kits	Carryover	844	101%	852	0.20	14,056	1.000	852	0.20	14,056	N/A	N/A	N/A	N/A	N/A	N/A	9.9
Residential NPSO Adder		N/A	N/A	N/A	N/A	N/A	N/A	891	0.17	10,456	N/A	N/A	N/A	N/A	N/A	N/A	12.2

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	$	%			
Business Program																	
Standard	Core	64,643	97%	62,829	11.64	804,841	0.906	56,907	10.57	728,986	$216.38	$17.08	$13,038,950.62	No research	745	Projects	12.9
Standard	OS	2,465	99%	2,440	0.52	26,089	0.963	2,350	0.48	25,122				No research	6,108	Measures Incented	10.7
Standard	BOC	1,137	88%	1,003	0.11	9,248	N/A	1,003	0.11	9,248				N/A	9	Customers Trained	13.0
Custom	Custom Incentives	39,928	91%	36,191	3.77	669,082	0.814	29,466	3.12	544,754	$373.06	$20.41	$11,403,165.54	0.900	124	Projects	18.5
Custom	NCL	1,474	94%	1,391	0.28	17,745	0.791	1,100	0.22	14,035				0.752	24	Projects	12.8
Retro-Commissioning	Core	1,841	100%	1,832	0.04	15,755	0.945	1,730	0.04	14,880	$190.44	$25.13	$1,371,685.47	No research	4	Projects	8.6
Retro-Commissioning	VCx	4,571	108%	4,956	0.00	36,176	0.937	4,642	0.00	33,887				0.931	20	Sites Treated	7.3
Retro-Commissioning	VSEM	803	103%	831	0.00	5,814	1.000	831	0.00	5,814				No research	4	Participants	7.0
Streetlighting	MOSL	50	100%	50	0.00	1,009	1.000	50	0.00	1,009	$1,778.15	$88.91	$89,713.98	No research	69	Streetlights	20.0
Streetlighting	UOSL	12,516	100%	12,516	0.00	238,425	1.000	12,516	0.00	238,425	$73.49	$3.86	$919,832.50	N/A	18,007	Streetlights	20.0
Small Business	SBDI	35,027	100%	35,017	5.71	456,136	0.917	32,099	5.25	418,125	$424.23	$32.57	$13,617,173.14	Varies	137,640	Measures Installed	13.6
Small Business	SBEP	332	69%	229	0.11	4,487	1.000	229	0.11	4,487	$2,868.36	$146.37	$656,727.63	No research	29	Projects Completed	20.1
Midstream	Lighting	28,461	101%	28,672	6.17	427,417	0.981	28,129	6.06	419,315	$184.30	$12.36	$5,184,247.81	No research	446,310	Measures Incented	14.9
Midstream	HVAC	405	100%	405	0.10	5,113	0.704	285	0.07	3,600	$2,096.93	$166.09	$597,905.04	No research	369	Measures Incented	12.9
Midstream	Food Service	575	92%	529	0.05	6,763	0.863	456	0.04	5,839	$455.36	$35.60	$207,855.74	No research	251	Measures Incented	13.5
Midstream	Lighting Carryover	N/A	N/A	3,543	0.84	54,417	0.863	3,235	0.77	46,989	N/A	N/A	N/A	N/A	N/A	N/A	14.6
Market Transformation	LLLC Pilot	0	N/A	0	0.00	N/A	N/A	0	0.00	0	N/A	N/A	$240,814.38	N/A	N/A	N/A	N/A
Voltage Optimization Program																	
Voltage Optimization		70,743	109%	77,169	13.66	1,157,529	1.000	77,169	13.66	1,157,529	$397.03	$26.47	$30,638,443	N/A	214	Circuits	15.0
Portfolio Total		**414,219**	**103%**	**426,951**	**65.13**	**5,527,751**	**0.928**	**396,397**	**60.48**	**5,139,089**	**$392.07**	**$30.24**	**$155,416,341**				**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	492,594	101%	495,962	5,934,647	1.000	495,962	5,934,647	$1.57	$0.13	$778,974.67	N/A	1,709,011	Measures incented	12.0
Retail Products	Market Rate	1,068,064	100%	1,065,268	12,204,245	0.891	949,276	10,875,384	$1.95	$0.17	$1,850,407.49	No research	173,244	Measures incented	11.5
Income Qualified	Single Family	352,182	100%	353,137	7,550,779	1.000	353,137	7,550,779	$9.28	$0.43	$3,276,120.85	N/A	2,946	Customers served	21.4
Income Qualified	CAA	320	100%	320	7,589	1.000	320	7,589	$4,405.18	$185.95	$1,411,049.47	N/A	216	Customers served	23.7
Income Qualified	Smart Savers	53,473	101%	53,902	592,922	0.999	53,821	592,036	$0.99	$0.09	$53,458.82	No research	904	Thermostats	11.0
Income Qualified	MHAS	39,289	100%	39,290	807,138	1.000	39,290	807,138	$9.44	$0.48	$397,112.34	N/A	100	Customers served	20.5
Kits	Mobile Home Kits	2,799	100%	2,799	27,986	1.000	2,799	27,986				N/A	330	Kits	10.0
Income Qualified	Healthier Homes	8,560	99%	8,487	186,779	1.000	8,487	186,779	$10.40	$0.47	$88,279.27	N/A	16	Customers served	22.0
Multifamily	Income Qualified	51,797	98%	50,990	572,670	1.000	50,990	572,670	$6.80	$0.61	$346,920.95	N/A	8,210	Tenant units	11.2
Multifamily	Market Rate	16,890	102%	17,185	188,804	0.998	17,159	188,518	$2.58	$0.24	$44,331.97	N/A	2,057	Tenant units	11.0
Multifamily	Public Housing	15,501	98%	15,182	210,729	1.000	15,182	210,729	$9.30	$0.67	$141,174.94	N/A	1,391	Tenant units	13.9
Market Rate Single Family	Midstream HVAC	359,002	100%	358,933	6,719,839	0.833	298,879	5,595,520	$2.19	$0.12	$654,925.29	Varies	9,007	Measures rebated	18.7
Market Rate Single Family	Midstream HVAC Market Effects	0	N/A	0	0	N/A	18,603	348,285	N/A	N/A	N/A	N/A	N/A	N/A	18.7
Market Rate Single Family	Home Efficiency	26,824	97%	26,131	728,173	0.826	21,579	601,316	$12.00	$0.43	$258,882.47	Varies	158	Customers served	27.9
Kits	Full School Kits	204,325	97%	197,204	2,098,441	1.000	197,204	2,098,441	$0.77	$0.07	$150,919.48	No research	9,500	Kits	10.6
Kits	High School Innovation	30,435	76%	23,235	307,181	1.000	23,235	307,181	$1.41	$0.11	$32,713.56	N/A	2,513	Kits	13.2
Kits	Income Qualified Community Kits	40,955	100%	40,947	509,101	1.000	40,947	509,101	$2.93	$0.24	$120,060.73	N/A	3,000	Kits	12.4
Residential NPSO Adder		N/A	N/A	N/A	N/A	N/A	56,623	692,311	N/A	N/A	N/A	N/A	N/A	N/A	12.2
Business Program															
Standard	Core	1,555,181	100%	1,560,657	16,569,289	0.718	1,119,881	11,889,628				No research	745	Projects	10.6
Standard	OS	107,812	100%	107,812	1,185,927	0.910	98,062	1,078,678	$2.03	$0.19	$2,500,607.65	No research	6,108	Measures Incented	11.0
Standard	BOC	16,100	86%	13,800	179,400	N/A	13,800	179,400				N/A	9	Customers Trained	13.0
Custom	Custom Incentives	1,454,451	132%	1,916,044	36,956,016	0.834	1,597,520	30,812,422	$1.19	$0.06	$1,905,934.87	0.645	124	Projects	19.3
Custom	NCL	0	N/A	0	0	N/A	0	0				N/A	24	Projects	N/A
Retro-Commissioning	Core	0	N/A	0	0	N/A	0	0				No research	4	Projects	N/A
Retro-Commissioning	VCx	0	N/A	0	0	N/A	0	0	N/A	N/A	$41,598.61	N/A	20	Sites Treated	N/A
Retro-Commissioning	VSEM	0	N/A	0	0	N/A	0	0				No research	4	Participants	N/A
Streetlighting	MOSL	0	N/A	0	0	N/A	0	0	N/A	N/A	$0.00	No research	69	Streetlights	N/A
Streetlighting	UOSL	0	N/A	0	0	N/A	0	0	N/A	N/A	$0.00	N/A	18,007	Streetlights	N/A
Small Business	SBDI	0	N/A	0	0	N/A	0	0	N/A	N/A	$0.00	Varies	137,640	Measures Installed	N/A
Small Business	SBEP	18,280	106%	19,319	212,513	1.000	19,319	212,513	$29.76	$2.71	$574,871.68	No research	29	Projects Completed	11.0
Midstream	Lighting	0	N/A	0	0	N/A	0	0	N/A	N/A	$0.00	No research	446,310	Measures Incented	N/A
Midstream	HVAC	7,469	95%	7,129	78,420	0.864	6,156	67,720	$15.48	$1.41	$95,275.83	No research	369	Measures Incented	11.0
Midstream	Food Service	54,799	114%	62,568	752,583	0.866	54,170	651,569	$2.00	$0.17	$108,167.75	No research	251	Measures Incented	12.0

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	$	%			
Market Transformation	LLLC Pilot	N/A	N/A	0	0	N/A	0	0	N/A	N/A	$32,135.76				
Voltage Optimization Program															
Voltage Optimization		0	N/A	0	0	N/A	0	0	N/A	N/A	$0.00	N/A	N/A	N/A	N/A
Portfolio Total		**5,977,102**	**108%**	**6,436,301**	**94,581,169**	**0.863**	**5,552,401**	**81,998,338**	**$3.08**	**$0.21**	**$17,097,459.73**				**14.7**

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.

APPENDIX B. 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).

APPENDIX C. 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 6,186,908 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	101,764	0.891	90,679	90,679	90,679	90,679	90,672	90,656	90,656	84,495	30,884	26,225	23,038	8,707	7,790	7,790	7,486	838	646
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	11,259	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	891	0.797	891	891	891	891	829	824	821	761	746	715	648	308	295	295	290	236	39
Standard Initiative	12.8	66,272	0.909	60,260	60,260	60,242	60,072	59,622	59,352	58,749	57,665	52,799	52,519	49,985	41,005	29,136	27,770	27,340	4,206	295
Custom Initiative	18.3	37,582	0.813	30,566	30,566	30,566	30,566	30,566	29,995	29,995	29,995	29,552	29,445	29,430	28,513	28,201	23,100	23,047	16,715	15,652
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	1.000	12,566	12,566	12,566	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867	11,867
Small Business Initiative	13.7	35,246	0.917	32,328	32,328	32,274	31,291	30,699	30,266	29,422	28,838	28,715	28,303	27,664	24,982	20,266	18,609	18,339	7,466	229
Midstream Initiative	14.9	29,606	0.975	28,871	28,871	28,871	28,865	28,835	28,826	28,826	28,826	28,826	28,812	28,805	28,731	28,421	28,398	23,162	2,835	69
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	51,280	0.827	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	41,473	41,473
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		**480,720**	**0.913**	**438,825**	**438,825**	**437,789**	**435,930**	**432,754**	**431,303**	**428,702**	**413,330**	**345,376**	**336,897**	**317,886**	**286,316**	**268,170**	**260,024**	**253,074**	**104,225**	**74,160**
Expiring 2024 CPAS				**0**	**0**	**1,036**	**1,860**	**3,175**	**1,451**	**2,602**	**15,372**	**67,953**	**8,479**	**19,012**	**31,570**	**18,146**	**8,146**	**6,950**	**148,849**	**30,065**
Expired 2024 CPAS				**0**	**0**	**1,036**	**2,896**	**6,071**	**7,522**	**10,124**	**25,496**	**93,449**	**101,928**	**120,939**	**152,509**	**170,655**	**178,802**	**185,751**	**334,600**	**364,665**

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	101,764	0.891	646	646	538	25	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	891	0.797	39	15	12	2	2	2	2	2	2	2	2	2	2	0	0	0	0
Standard Initiative	12.8	66,272	0.909	295	295	295	295	295	295	154	154	0	0	0	0	0	0	0	0	0
Custom Initiative	18.3	37,582	0.813	14,628	13,950	13,950	12,932	12,813	12,638	3,983	3,832	613	613	613	613	613	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	1.000	11,867	11,867	11,867	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Business Initiative	13.7	35,246	0.917	229	229	229	4	4	4	4	4	0	0	0	0	0	0	0	0	0
Midstream Initiative	14.9	29,606	0.975	69	69	69	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	51,280	0.827	41,473	41,473	41,473	41,462	41,462	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		**480,720**	**0.913**	**73,137**	**71,551**	**71,216**	**55,614**	**55,470**	**55,296**	**46,499**	**46,348**	**1,533**	**1,533**	**1,533**	**1,533**	**1,533**	**26**	**26**	**26**	**26**
Expiring 2024 CPAS				**1,023**	**1,586**	**334**	**15,602**	**145**	**373,406**	**8,796**	**151**	**44,815**	**0**	**0**	**0**	**0**	**1,506**	**0**	**0**	**0**
Expired 2024 CPAS				**365,689**	**367,275**	**367,609**	**383,211**	**383,356**	**383,530**	**392,326**	**392,477**	**437,293**	**437,293**	**437,293**	**437,293**	**437,293**	**438,799**	**438,799**	**438,799**	**438,799**

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	101,764	0.891	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	891	0.797	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Standard Initiative	12.8	66,272	0.909	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Custom Initiative	18.3	37,582	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	1.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small Business Initiative	13.7	35,246	0.917	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Midstream Initiative	14.9	29,606	0.975	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	51,280	0.827	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		**480,720**	**0.913**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**26**	**0**
Expiring 2024 CPAS				**0**	**0**	**0**	**55,444**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**26**
Expired 2024 CPAS				**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,799**	**438,825**

APPENDIX D. 2024 HIGH IMPACT MEASURE LIST

The 2024 high impact measure list summarizes the IL-TRM measures that were most impactful for the AIC portfolio in 2024. Table 20 and Table 21 provide an excerpt showing the top 10 most impactful measures in the 2024 program year. The full high impact measure list is available separately on request.

Table 20. 2024 Electric Portfolio High Impact Measure List Top 10 Summary

IL-TRM Enduse	IL-TRM Section	IL-TRM Measure Name	Verified Gross kWh	% of Total Portfolio Savings
Lighting	4.5.4	LED Bulbs and Fixtures	89,085,156	21%
Cross-Cutting	6.2.1	Voltage Optimization	77,168,595	18%
Lighting	5.5.8	LED Screw Based Omnidirectional Bulbs	49,433,373	12%
N/A	N/A	Custom Measures	46,091,230	11%
Lighting	5.5.6	LED Specialty Lamps	21,150,526	5%
HVAC	5.3.16	Advanced Thermostats	18,947,856	4%
Lighting	4.1.11	Commercial LED Grow Lights	18,905,732	4%
HVAC	5.3.1	Centrally Ducted Air Source Heat Pump	15,732,007	4%
Lighting	4.5.16	LED Streetlighting	12,566,375	3%
Lighting	5.5.13	EISA Exempt LED Lighting	8,697,973	2%

Source: Opinion Dynamics analysis of 2024 evaluation data.
Note that savings totals reflect savings as assessed for cost-effectiveness analysis and therefore may exhibit variances from savings reported in the body of program evaluation reports per Illinois policy.

Table 21. 2024 Gas Portfolio High Impact Measure List Top 10 Summary

IL-TRM Enduse	IL-TRM Section	IL-TRM Measure Name	Verified Gross Therms	% of Total Portfolio Savings
N/A	N/A	Custom Measures	2,407,022	34%
HVAC	5.3.16	Advanced Thermostats	1,546,074	22%
HVAC	4.4.16	Steam Trap Replacement or Repair	717,463	10%
HVAC	5.3.7	Gas High Efficiency Furnace	501,694	7%
HVAC	4.4.10	High Efficiency Boiler	259,804	4%
Hot Water	4.3.12	Tank Insulation	227,057	3%
Shell	5.6.1	Air Sealing	187,580	3%
HVAC	4.4.3	Process Boiler Tune-Up	181,042	3%
Hot Water	5.4.5	Low Flow Showerheads	122,993	2%
Hot Water	5.4.1	Domestic Hot Water Pipe Insulation	119,852	2%

Source: Opinion Dynamics analysis of 2024 evaluation data.
Note that savings totals reflect savings as assessed for cost-effectiveness analysis and therefore may exhibit variances from savings reported in the body of program evaluation reports per Illinois policy.

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