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| Energy Savings Kits Impact Evaluation ReportEnergy Efficiency Plan: Program Year 2024 (1/1/2024-12/31/2024) |
| Prepared for:Nicor Gas CompanyDRAFTMarch 27, 2025 |
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# Introduction

This report presents the results of the impact evaluation of the Nicor Gas 2024 Energy Saving Kits (ESK) Income Eligible and Market Rate programs. It presents a summary of the energy impacts for the total program and broken out by relevant measure and program kit structure details. The appendix presents the impact analysis methodology and cost-effectiveness input summary. Program year 2024 covers kit deliveries between January 1 through December 31, 2024.

# Energy Savings Kits Income Eligible Program

## Program Description

The Nicor Gas ESK Income Eligible program provides hot water savings kits (marketed as water savings kits, Kit 2) and weatherization efficiency measures (market as weatherization kits, Kit 4) that reduce customer natural gas consumption. Kit 5 includes both water and weatherization measures. Savings are tracked by whether kits were delivered to single or multi-family (MF) homes. The offering targets customers through direct mail, outreach events, targeted emails, Nicor Gas Energy Efficiency Program website promotions, and financial heating assistance intake centers. The kits are free and available to Income Eligible Nicor Gas single-family (SF) and multi-family (MF) residential customers upon request. Kit 2 contains a combination of water-saving measures. Kit 4 includes a combination of weatherization gas space heating reduction measures, and Kit 5 includes a combination of both water-saving and weatherization gas space heating reduction measures. The suite of measures present in each of these kits is shown in Table 2.

The program delivered 21,256 kits in 2024, as shown in Table 1.

Table 1. 2024 Volumetric Findings Detail

|  |  |
| --- | --- |
| Kit Type | Number of Kits Distributed |
| **Water-Savings Kits (Kit 2)** | 4,264 |
| **Weatherization Kits (Kit 4)** | 4,921 |
| **Kits 5** | 12,071 |

Source: Nicor Gas tracking data and evaluation team analysis.

Table 2 summarizes the installed measure quantities that are the basis for verified energy savings.

Table 2. 2024 Installed Measure Quantities – Income Eligible

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Program Path | Measure | Quantity Unit | Quantity Per Kit | Installed Quantity |
| **Water-Savings Kits** |  |  |  |  |
| Kit 2 | Bathroom Aerator | Each | 2 | 6,412 |
|  | Showerhead | Each | 2 | 6,412 |
|  | Kitchen Aerator | Each | 1 | 3,206 |
|  | Shower Timer | Each | 1 | 3,206 |
| Kit 2 MF | Bathroom Aerator | Each | 2 | 2,116 |
|  | Showerhead | Each | 2 | 2,116 |
|  | Kitchen Aerator | Each | 1 | 1,058 |
|  | Shower Timer | Each | 1 | 1,058 |
| **Weatherization Kits** |  |  |  |  |
| Kit 4 | Rope Caulk | Feet | 30 | 128,370 |
|  | Foam Tape | Feet | 17 | 72,743 |
|  | V-Seal | Feet | 17 | 72,743 |
|  | Outlet Cover | Each | 12 | 51,348 |
|  | Door Sweep | Each | 1 | 4,279 |
| Kit 4 MF | Rope Caulk | Feet | 30 | 19,260 |
|  | Foam Tape | Feet | 17 | 10,914 |
|  | V-Seal | Feet | 17 | 10,914 |
|  | Outlet Cover | Each | 12 | 7,704 |
|  | Door Sweep | Each | 1 | 642 |
| Kit 5 | Rope Caulk | Feet | 30 | 362,130 |
|  | Foam Tape | Feet | 17 | 205,207 |
|  | V-Seal | Feet | 17 | 205,207 |
|  | Window Insulation Kit | Each | 5 | 60,355 |
|  | Outlet Gasket | Each | 4 | 48,284 |
|  | Switch Gasket | Each | 4 | 48,284 |
|  | Bathroom Aerator | Each | 2 | 24,142 |
|  | Showerhead | Each | 1 | 12,071 |
|  | Kitchen Aerator | Each | 1 | 12,071 |
|  | Shower Timer | Each | 1 | 12,071 |
|  | Door Sweep | Each | 1 | 12,071 |
|  | Temperature Setback Card | Each | 1 | 12,071 |

Source: Nicor Gas tracking data and evaluation team analysis.

## Program Savings Detail

Table 3 summarizes the energy savings of the Energy Savings Kit Income Eligible program achieved by path in 2024. Savings are also tracked by whether kits were delivered to single or multi-family (MF) homes.

Table 3. 2024 Annual Energy Savings Summary – Income Eligible

| Program Path | Ex Ante Gross Savings (Therms)\* | Verified Gross RR\*\* | Verified Gross Savings (Therms) | NTG† | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- |
| **Water-Savings Kits** |  |  |  |  |  |
| Kit 2 | 71,862  | 90% | 64,872  |  1.00  |  64,872  |
| Kit 2 MF | 25,194  | 101% | 25,500  |  1.00  |  25,500  |
| ***Water-Saving Kits Subtotal*** | ***97,056***  | ***93%*** | ***90,373***  | **1.00** |  ***90,373***  |
| **Weatherization Kits** |  |  |  |  |  |
| Kit 4 | 102,336  | 105% | 107,345  |  1.00  |  107,345  |
| Kit 4 MF | 14,029  | 115% | 16,106  |  1.00  |  16,106  |
| ***Weatherization Kits Subtotal*** | ***116,365***  | ***106%*** | ***123,451***  | **1.00** |  ***123,451***  |
| **Kit 5** |  |  |  |  |  |
| Kit 5 | *416,558*  | *100%* | *416,564*  |  1.00  |  *416,564*  |
| ***Kit 5 Subtotal*** | ***416,558***  | ***100%*** | ***416,564***  | **1.00** |  ***416,564***  |
| ***Total*** | **629,979**  | **100%** | **630,388**  | **1.00** |  **630,388**  |

\* Ex ante savings reported in the tracking data and in Table 4 are at the kit level, while subsequent tables present savings at the measure level. The breakdown of kit-level savings into measure level savings introduces rounding differences, resulting in a 6 Therms variance between Table 4 and other ESK Income Eligible tables in the report.

\*\* Realization Rate (RR) is the ratio of verified gross savings to ex ante gross savings, based on evaluation research findings.

† NTG, Net to Gross is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>.

Source: Evaluation team analysis.

## Program Savings by Measure

The savings produced from water savings and weatherization measures are shown in Table 4.

Table 4. 2024 Annual Energy Savings by Measure – Income Eligible

| Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- |
| **Water-Savings Kits** | Kitchen Aerator | 53,219  | 93% | 49,554  |  1.00  | 49,554  |
| Shower Timer | 20,467  | 93% | 19,058  |  1.00  | 19,058  |
| Bathroom Aerator | 17,992  | 93% | 16,753  |  1.00  | 16,753  |
| Showerhead | 5,377  | 93% | 5,007  |  1.00  | 5,007  |
| ***Water-Saving Kits Subtotal*** |  | ***97,056***  | ***93%*** | ***90,373***  | ***1.00***  | ***90,373***  |
| **Weatherization Kits** | Rope Caulk | 38,711  | 106% | 41,068  |  1.00  | 41,068  |
| Foam Tape | 24,164  | 106% | 25,635  |  1.00  | 25,635  |
| V-Seal | 24,164  | 106% | 25,635  |  1.00  | 25,635  |
| Outlet Cover | 20,955  | 106% | 22,231  |  1.00  | 22,231  |
| Door Sweep | 8,372  | 106% | 8,881  |  1.00  | 8,881  |
| ***Weatherization Kits Subtotals*** |  | ***116,365***  | ***106%*** | ***123,451***  | ***1.00***  | ***123,451***  |
| **Kit 5** | *Rope Caulk* | 78,437  | 100% | 78,437  |  1.00  | 78,437  |
| Window Insulation Kit | 73,271  | 100% | 73,271  |  1.00  | 73,271  |
| *Showerhead* | 56,444  | 100% | 56,444  |  1.00  | 56,444  |
| Foam Tape | 48,900  | 100% | 48,900  |  1.00  | 48,900  |
| V-Seal | 48,900  | 100% | 48,900  |  1.00  | 48,900  |
| Door Sweep | 42,430  | 100% | 42,430  |  1.00  | 42,430  |
| *Shower Timer* | 38,120  | 100% | 38,120  |  1.00  | 38,120  |
| *Bathroom Aerator* | 9,874  | 100% | 9,874  |  1.00  | 9,874  |
| *Kitchen Aerator* | 8,184  | 100% | 8,184  |  1.00  | 8,184  |
| Outlet Gasket | 5,649  | 100% | 5,649  |  1.00  | 5,649  |
| Switch Gasket | 5,649  | 100% | 5,649  |  1.00  | 5,649  |
| Temperature Setback Card | 706  | 100% | 706  |  1.00  | 706  |
| ***Kit 5 Subtotal*** |  | ***416,564*** | ***100%*** | ***416,564*** | ***1.00*** | ***416,564*** |
| ***Total*** |  | **629,985** | **100%** | **630,388** | **1.00** | **630,388** |

\* Realization Rate (RR) is the ratio of verified gross savings to ex ante gross savings, based on evaluation research findings.

† NTG, Net to Gross is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>.

Source: Evaluation team analysis.

Table 5 details measure level savings by whether the kit measures were delivered to single or multi-family homes.

Table 5. 2024 Annual Energy Savings by Measure and Residence Type

| Measure | Quantity Distributed | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- |
| **Water-Saving Kits** |  |  |  |  |  |  |
| Bathroom Aerators SF | 6,412 | 3,485 | 90% | 3,146 | 1.00 | 3,146 |
| Bathroom Aerators MF | 2,116 | 1,838 | 101% | 1,861 | 1.00 | 1,861 |
| Kitchen Aerators SF | 3,206 | 16,008 | 90% | 14,451 | 1.00 | 14,451 |
| Kitchen Aerators MF | 1,058 | 4,552 | 101% | 4,607 | 1.00 | 4,607 |
| Showerhead SF | 6,412 | 38,257 | 90% | 34,536 | 1.00 | 34,536 |
| Showerhead MF | 2,116 | 14,838 | 101% | 15,019 | 1.00 | 15,019 |
| Shower Timer SF | 3,206 | 14,112 | 90% | 12,739 | 1.00 | 12,739 |
| Shower Timer MF | 1,058 | 3,966 | 101% | 4,014 | 1.00 | 4,014 |
| **Weatherization Kits** |  |  |  |  |  |  |
| Rope Caulk SF | 128,370 | 34,044 | 105% | 35,710 | 1.00 | 35,710 |
| Rope Caulk MF | 19,260 | 4,667 | 115% | 5,358 | 1.00 | 5,358 |
| Foam Tape SF | 72,743 | 21,250 | 105% | 22,291 | 1.00 | 22,291 |
| Foam Tape MF | 10,914 | 2,913 | 115% | 3,344 | 1.00 | 3,344 |
| V-Seal SF | 72,743 | 21,250 | 105% | 22,291 | 1.00 | 22,291 |
| V-Seal MF | 10,914 | 2,913 | 115% | 3,344 | 1.00 | 3,344 |
| Door Sweep SF | 4,279 | 18,428 | 105% | 19,331 | 1.00 | 19,331 |
| Door Sweep MF | 642 | 2,526 | 115% | 2,900 | 1.00 | 2,900 |
| Gaskets SF  | 51,348 | 7,362 | 105% | 7,723 | 1.00 | 7,723 |
| Gaskets MF | 7,704 | 1,009 | 115% | 1,159 | 1.00 | 1,159 |
| **Kit 5** |  |  |  |  |  |  |
| Rope Caulk | 362,130 | 78,437 | 100% | 78,437 | 1.00 | 78,437 |
| Window Insulation Kit | 60,355 | 73,271 | 100% | 73,271 | 1.00 | 73,271 |
| Showerhead | 12,071 | 56,444 | 100% | 56,444 | 1.00 | 56,444 |
| Foam Tape | 205,207 | 48,900 | 100% | 48,900 | 1.00 | 48,900 |
| V-Seal | 205,207 | 48,900 | 100% | 48,900 | 1.00 | 48,900 |
| Door Sweep | 12,071 | 42,430 | 100% | 42,430 | 1.00 | 42,430 |
| Shower Timer | 12,071 | 38,120 | 100% | 38,120 | 1.00 | 38,120 |
| Bathroom Aerator | 24,142 | 9,874 | 100% | 9,874 | 1.00 | 9,874 |
| Kitchen Aerator | 12,071 | 8,184 | 100% | 8,184 | 1.00 | 8,184 |
| Outlet Gasket | 48,284 | 5,649 | 100% | 5,649 | 1.00 | 5,649 |
| Switch Gasket | 48,284 | 5,649 | 100% | 5,649 | 1.00 | 5,649 |
| Temperature Setback Card | 12,071 | 706 | 100% | 706 | 1.00 | 706 |
| **Total**  | **1,418,465** | **629,985** | **100%** | **630,388** |  | **630,388** |

\* Realization Rate (RR) is the ratio of verified gross savings to ex ante gross savings, based on evaluation research findings.

† NTG, Net to Gross is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>.

Source: Evaluation team analysis.

## Impact Analysis Findings and Recommendations

The Guidehouse team determined verified gross savings for each measure by conducting a tracking system review and measure level calculations. Calculated verified gross savings applied Illinois TRM v12.0 methodology including inputs and formulas. The evaluation team’s verified gross savings calculation uses non-rounded input values for per-kit unit thermal savings. In contrast, Nicor Gas savings report extracts round ex-ante per-kit gross savings to two digits after the decimal point. These rounding differences cause minor differences in total Therms for the program (typically less than 0.1%) and are not Nicor Gas calculation errors.

## Impact Parameter Estimates

Table 6 shows the unit Therm savings and realization rate findings by measure from our review. The realization rate is the ratio of the verified savings to the ex-ante savings. Following the table, we provide findings and recommendations, including discussion of all measures with realization rates above or below 100%. Appendix A provides a description of the impact analysis methodology.

Table 6. Verified Gross Savings Parameters

| Measure | Unit Basis | Ex Ante Gross\* (Therms/unit) | Verified Gross (Therms/unit) | Realization Rate | Data Source(s)† |
| --- | --- | --- | --- | --- | --- |
| **Water-Saving Kits** |  |  |  |  |  |
| Bath Aerators SF | Each | 0.54  |  0.49  | 90% | Illinois TRM, v12.0, Section 5.4.4†, PTD\* |
| Bath Aerators MF | Each | 0.87  |  0.88  | 101% | Section 5.4.4, PTD |
| Kitchen Aerators SF | Each | 4.99  |  4.51  | 90% | Section 5.4.4, PTD |
| Kitchen Aerators MF | Each | 4.30  |  4.35  | 101% | Section 5.4.4, PTD |
| Showerhead SF | Each | 5.97  |  5.39  | 90% | Section 5.4.5, PTD |
| Showerhead MF | Each | 7.01  |  7.10  | 101% | Section 5.4.5, PTD |
| Shower Timer SF | Each | 4.40  |  3.97  | 90% | Section 5.4.9, PTD |
| Shower Timer MF | Each | 3.75  |  3.79  | 101% | Section 5.4.9, PTD |
| **Weatherization Kits** |  |  |  |  |  |
| Outlet Cover SF | Each | 1.72  |  1.80  | 105% | Section 5.6.1, PTD |
| Outlet Cover MF | Each | 1.57  |  1.80  | 115% | Section 5.6.1, PTD |
| Foam Tape SF | Feet | 4.97  |  5.21  | 105% | Section 5.6.1, PTD |
| Foam Tape MF | Feet | 4.54  |  5.21  | 115% | Section 5.6.1, PTD |
| V-Seal SF | Feet | 4.97  |  5.21  | 105% | Section 5.6.1, PTD |
| V-Seal MF | Feet | 4.54  |  5.21  | 115% | Section 5.6.1, PTD |
| Door Sweep SF | Each | 4.31  |  4.52  | 105% | Section 5.6.1, PTD |
| Door Sweep MF | Each | 3.94  |  4.52  | 115% | Section 5.6.1, PTD |
| Rope Caulk SF | Feet | 7.96  |  8.35  | 105% | Section 5.6.1, PTD |
| Rope Caulk MF | Feet | 7.27  |  8.35  | 115% | Section 5.6.1, PTD |
| **Kit 5** |  |  |  |  |  |
| Rope Caulk | Feet | 6.50  |  6.50  | 100% | Section 5.6.1, PTD |
| Foam Tape | Feet | 4.05  |  4.05  | 100% | Section 5.6.1, PTD |
| V-Seal | Feet | 4.05  |  4.05  | 100% | Section 5.6.1, PTD |
| Window Insulation Kit | Each | 6.07  |  6.07  | 100% | Section 5.6.1, PTD |
| Outlet Gasket | Each | 0.12  |  0.12  | 100% | Section 5.6.1, PTD |
| Switch Gasket | Each | 0.12  |  0.12  | 100% | Section 5.6.1, PTD |
| Bathroom Aerator | Each | 0.41  |  0.41  | 100% | Section 5.4.4, PTD  |
| Showerhead | Each | 4.68  |  4.68  | 100% | Section 5.4.5, PTD |
| Kitchen Aerator | Each | 0.68  |  0.68  | 100% | Section 5.4.4, PTD  |
| Shower Timer | Each | 3.16  |  3.16  | 100% | Section 5.6.1, PTD |
| Door Sweep | Each | 3.52  |  3.52  | 100% | Section 5.6.1, PTD |
| Temperature Setback Card | Each | 0.06  |  0.06  | 100% | Section 5.6.1, PTD |

\* Program Tracking Data (PTD) provided by Nicor Gas, extract dated January 30, 2025.

† State of Illinois Technical Reference Manual version 12.0 from <http://www.ilsag.info/technical-reference-manual.html>.

Source: Evaluation team analysis.

## Findings and Recommendations

The evaluation team identified inconsistencies in per-kit savings reported in the tracking data, which are discussed in the findings below. Table 7 compares the per-kit savings values reported in the tracking data with the verified savings for each kit type and Implementation Contractor (IC).

**Finding 1.** For the kits distributed by Group O, the tracking data provided two different savings values for each kit type—one of which matched the verified gross savings, while the other did not. The evaluation team calculated per-kit savings using algorithms and assumptions from IL-TRM v12.0 and applied them uniformly to all kits of the same type.

**Recommendation 1.** Ensure that per-kit savings are calculated using the algorithms and assumptions outlined in IL-TRM and are uniformly applied to all kits of the same type in the tracking data.

**Finding 2.** For the kits distributed by Walker-Miller Energy Services, ex-ante savings per kit did not align with verified gross savings for all kits except Kit 5. The evaluation team calculated per-kit savings using algorithms and assumptions from applicable IL-TRM.

**Recommendation 2.** Ensure that per-kit savings are calculated according to algorithms and assumptions from applicable IL-TRM.

Table 7. Unit Kit Savings Comparison

| Kit Name | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms |
| --- | --- | --- | --- |
| Kit 2 | 20.23 | 100% | 20.23 |
| 24.35 | 83% | 20.23 |
| Kit 2 MF | 24.10 | 100% | 24.10 |
| 29.67 | 81% | 24.10 |
| Kit 4 | 21.07 | 119% | 25.09 |
| 25.09 | 100% | 25.09 |
| Kit 4 MF | 21.07 | 119% | 25.09 |
| 25.09 | 100% | 25.09 |
| Kit 2 MF | 13.182 | 154% | 20.23 |
| Kit 4 | 16.311 | 148% | 24.10 |
| Kit 4 MF | 29.104 | 86% | 25.09 |
| Kit 5 | 34.509 | 100% | 34.51 |

Source: Evaluation team analysis.

# Energy Savings Kits Market Rate Program

## Program Description

The Nicor Gas ESK Market Rate program provides hot water (marketed as water savings kits) and weatherization efficiency measures (via weatherization kits) that reduce customer natural gas consumption. The offering targets customers through direct email, outreach events, targeted emails, Nicor Gas Energy Efficiency Program website promotions, and financial heating assistance intake centers. The kits are free and are available to all Nicor Gas single-family (SF) and multi-family (MF) residential customers upon request. There are Kit 1, Kit 2, and Kit 3 versions containing water-saving measure combinations (Kit 1 was not in 2024 program). A fourth kit combination (Kit 4) includes weatherization gas space heating reduction measures. The weatherization measures include outlet covers, foam tape weatherstripping, v-seal weatherstripping, a self-adhesive door sweep, and a roll of rope caulk. Table 8 summarizes total kit distributions in 2024. Customers may request one of either Kit 2, or Kit 3, plus up to two of Kit 4.

The program had 13,536 participants in 2024 and included nine different types of measures as shown in the following table.

Table 8. 2024 Volumetric Findings Detail

|  |  |
| --- | --- |
| **Kit** | **Number of Kits Distributed** |
| **Water-Savings Kits (Kits 2 & 3)** | 6,028 |
| **Weatherization Kits (Kit 5)** | 7,508 |

Source: Nicor Gas tracking data and Guidehouse evaluation team analysis

Table 9 summarizes the installed measure quantities that are the basis for verified energy savings, broken out by quantity installed in designated disadvantaged community (DAC) area and non-disadvantaged area, based on census tract.

Table 9. 2024 Installed Measure Quantities – Market Rate

| Program Path | Measure | Quantity Unit | Quantity Per Kit | Installed Quantity |
| --- | --- | --- | --- | --- |
| **Water-Savings Kits** |  |  |  |  |
| Kit 2 | Bathroom Aerator | Each | 2 | 9,894 |
|  | Showerhead | Each | 2 | 9,894 |
|  | Kitchen Aerator | Each | 1 | 4,947 |
|  | Shower Timer | Each | 1 | 4,947 |
| Kit 3 | Bathroom Aerator | Each | 2 | 4 |
|  | Showerhead | Each | 2 | 4 |
|  | Kitchen Aerator | Each | 1 | 4 |
|  | Shower Timer | Each | 1 | 4 |
| **Water-Savings Kits - DAC** |  |  |  |  |
| Kit 2 | Bathroom Aerator - DAC | Each | 2 | 2,154 |
|  | Showerhead - DAC | Each | 2 | 1,077 |
|  | Kitchen Aerator - DAC | Each | 1 | 1,077 |
|  | Shower Timer - DAC | Each | 1 | 2,154 |
| **Weatherization Kits** | Rope Caulk | Feet | 30 | 186,600 |
|  | Foam Tape | Feet | 17 | 105,740 |
|  | V-Seal | Feet | 17 | 105,740 |
|  | Outlet Cover | Each | 12 | 74,640 |
|  | Door Sweep | Each | 1 | 6,220 |
| **Weatherization Kits - DAC** | Rope Caulk - DAC | Feet | 30 | 38,640 |
|  | Foam Tape - DAC | Feet | 17 | 21,896 |
|  | V-Seal - DAC | Feet | 17 | 21,896 |
|  | Outlet Cover - DAC | Each | 12 | 15,456 |
|  | Door Sweep - DAC | Each | 1 | 1,288 |

Source: Nicor Gas tracking data and evaluation team analysis.

## Program Savings Detail

Table 10 summarizes the energy savings of the ESK Market Rate program achieved by path in 2024. Savings are also tracked by whether kits were delivered to SF or MF homes.

Table 10. 2024 Annual Energy Savings Summary – Market Rate

| **Program Path** | **Ex Ante Gross Savings (Therms)\*\*** | **Verified Gross RR\*** | **Verified Gross Savings (Therms)** | **NTG†** | **NSPO‡** | **Verified Net Savings (Therms)** |
| --- | --- | --- | --- | --- | --- | --- |
| **Water-Savings Kits** |  |  |  |  |  |  |
| Kit 2 | 107,741  | 100% | 107,742  |  1.10  |  1.048  |  124,205  |
| Kit 2 – DAC\*\*\* |  22,968  | 100% | 22,968  |  1.10  |  1.048  |  26,478  |
| Kit 2 MF |  23,490  | 100% | 23,491  |  1.10  |  1.048  |  27,080  |
| Kit 2 MF – DAC\*\*\* |  5,702  | 100% | 5,702  |  1.10  |  1.048  |  6,574  |
| Kit 3 |  36  | 100% | 36  |  1.10  |  1.048  |  41  |
| Kit 3 MF |  40  | 100% | 40  |  1.10  |  1.048  |  47  |
| ***Water-Saving Kits Subtotal*** |  ***159,978***  | ***100%*** | ***159,980***  |  |  ***1.048***  |  ***184,425***  |
| **Weatherization Kits** |  |  |  |  |  |  |
| Kit 4 |  145,544  | 100% | 145,564  |  0.91  |  1.048  |  138,821  |
| Kit 4 – DAC\*\*\* |  29,542  | 100% | 29,546  |  1.00  | N/A  |  29,546  |
| Kit 4 MF |  25,071  | 100% | 25,074  |  0.91  |  1.048  |  23,913  |
| Kit 4 MF – DAC\*\*\* |  5,788  | 100% | 5,789  |  1.00  | N/A | 5,789  |
| ***Weatherization Kits Subtotal*** | ***205,973***  | ***100%*** | ***205,973***  |  |  | ***198,069***  |
|  | **365,922**  | **100%** | **365,953**  |  |  | **382,493** |

\* Ex ante savings reported in the tracking data and in Table 10 are at the kit level, while subsequent tables present savings at the measure level. The breakdown of kit-level savings into measure level savings introduces rounding differences, resulting in a 31 Therms variance between Table 10 and other ESK Market Rate tables in the report.

\* \* Realization Rate (RR) is the ratio of verified gross savings to ex ante gross savings, based on evaluation research findings.

\*\*\* If deemed NTG is multiplied by 1.048 Non-Participant Spillover factor (NPSO) and the resulted NTG value is less than 1.00, the evaluation assigned a DAC NTG of 1.00. If the resulted NTG value is >1.00, evaluation used the >1.00 value for calculation of net savings impact.

† NTG, Net to Gross is the deemed value available on the SAG website: [*https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/*](https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/)*.*

‡ Non-participant spillover (NPSO) factor of 1.048.
*Source: Evaluation team analysis.*

## Program Savings by Measure

The savings produced from water savings and weatherization measures are shown in Table 11.

Table 11. 2024 Annual Energy Savings by Measure – Market Rate

| Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Water-Savings Kits** | Showerhead | 75,711 | 100% | 75,711 | 1.10 | 1.048 | 87,280 |
| Kitchen Aerator | 28,957 | 100% | 28,957 | 1.10 | 1.048 | 33,381 |
| Shower Timer | 19,537 | 100% | 19,537 | 1.10 | 1.048 | 22,522 |
| Bathroom Aerator | 7,104 | 100% | 7,104 | 1.10 | 1.048 | 8,190 |
| Showerhead - DAC | 16,564 | 100% | 16,564 | 1.10 | 1.048 | 19,094 |
| Kitchen Aerator - DAC | 6,295 | 100% | 6,295 | 1.10 | 1.048 | 7,257 |
| Shower Timer - DAC | 4,247 | 100% | 4,247 | 1.10 | 1.048 | 4,895 |
| Bathroom Aerator -DAC | 1,565 | 100% | 1,565 | 1.10 | 1.048 | 1,804 |
| ***Water-Saving Kits Subtotal*** |  | ***159,980*** | ***100%*** | ***159,980*** |  | ***1.048*** | ***184,425*** |
| **Weatherization Kits** | Rope Caulk | 46,486 | 100% | 46,486 | 0.91 | 1.048 | 44,333 |
| Foam Tape | 37,031 | 100% | 37,031 | 0.91 | 1.048 | 35,316 |
| V-Seal | 34,974 | 100% | 34,974 | 0.91 | 1.048 | 33,354 |
| Door Sweep | 30,819 | 100% | 30,819 | 0.91 | 1.048 | 29,391 |
| Outlet Cover | 21,329 | 100% | 21,329 | 0.91 | 1.048 | 20,341 |
| Rope Caulk – DAC\*\* | 9,626 | 100% | 9,626 | 1.00 | N/A | 9,626 |
| Foam Tape – DAC\*\* | 7,668 | 100% | 7,668 | 1.00 | N/A | 7,668 |
|  | V-Seal – DAC\*\* | 7,242 | 100% | 7,242 | 1.00 | N/A | 7,242 |
|  | Door Sweep - DAC\*\* | 6,382 | 100% | 6,382 | 1.00 | N/A | 6,382 |
| Outlet Cover – DAC\*\* | 4,417 | 100% | 4,417 | 1.00 | N/A | 4,417 |
| ***Weatherization Kits Subtotals*** |  | ***205,973*** | ***100%*** | ***205,973*** |  |  | ***198,069*** |
| ***Total*** |  | **365,953** | **100%** | **365,953** |  |  | **382,493** |

\* Realization Rate (RR) is the ratio of verified gross savings to ex-ante gross savings, based on evaluation research findings.
*\*\** If deemed NTG is multiplied by 1.048 Non-Participant Spillover factor (NPSO) and the resulted NTG value is less than 1.00, the evaluation assigned a DAC NTG of 1.00. If the resulted NTG value is >1.00, evaluation used the >1.00 value for calculation of net savings impact.

† NTG, Net to Gross is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>.

‡ Non-participant spillover (NPSO) factor of 1.048.
*Source: Evaluation team analysis.*

Table 12 details measure level savings by whether the kit measures were delivered to single or multi-family homes.

Table 12. 2024 Annual Energy Savings by Measure and Residence Type

| Measure | Quantity Distributed | Ex Ante Gross Savings (Therms) | Verified Gross RR | Verified Gross Savings (Therms) | NTG† | NPSO | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Water-Saving Kits** |
| Bathroom Aerators SF | 8,380 | 5,363 | 100% | 5,363 | 1.10 | 1.048 | 6,183 |
| Bathroom Aerators MF | 1,518 | 1,741 | 100% | 1,741 | 1.10 | 1.048 | 2,007 |
| Kitchen Aerators SF | 4,191 | 24,640 | 100% | 24,640 | 1.10 | 1.048 | 28,405 |
| Kitchen Aerators MF | 760 | 4,317 | 100% | 4,317 | 1.10 | 1.048 | 4,977 |
| Showerhead SF | 8,380 | 61,121 | 100% | 61,121 | 1.10 | 1.048 | 70,461 |
| Showerhead MF | 1,518 | 14,590 | 100% | 14,590 | 1.10 | 1.048 | 16,819 |
| Shower Timer SF | 4,191 | 16,654 | 100% | 16,654 | 1.10 | 1.048 | 19,198 |
| Shower Timer MF | 760 | 2,883 | 100% | 2,883 | 1.10 | 1.048 | 3,324 |
| Bathroom Aerators SF – DAC\*\* | 1,786 | 1,143 | 100% | 1,143 | 1.10 | 1.048 | 1,318 |
| Bathroom Aerators MF – DAC\*\* | 368 | 422 | 100% | 422 | 1.10 | 1.048 | 487 |
| Kitchen Aerators SF – DAC\* | 893 | 5,250 | 100% | 5,250 | 1.10 | 1.048 | 6,052 |
| Kitchen Aerators MF – DAC\* | 184 | 1,045 | 100% | 1,045 | 1.10 | 1.048 | 1,205 |
| Showerhead SF – DAC\* | 1,786 | 13,027 | 100% | 13,027 | 1.10 | 1.048 | 15,017 |
| Showerhead MF – DAC\* | 368 | 3,537 | 100% | 3,537 | 1.10 | 1.048 | 4,077 |
| Shower Timer SF – DAC\* | 893 | 3,548 | 100% | 3,548 | 1.10 | 1.048 | 4,091 |
| Shower Timer MF – DAC\* | 184 | 698 | 100% | 698 | 1.10 | 1.048 | 805 |
| **Weatherization Kits** |
| Rope Caulk SF | 159,180 | 39,655 | 100% | 39,655 | 0.91 | 1.048 | 37,818 |
| Rope Caulk MF | 27,420 | 6,831 | 100% | 6,831 | 0.91 | 1.048 | 6,514 |
| Foam Tape SF | 90,202 | 31,589 | 100% | 31,589 | 0.91 | 1.048 | 30,126 |
| Foam Tape MF | 15,538 | 5,442 | 100% | 5,442 | 0.91 | 1.048 | 5,189 |
| V-Seal SF | 90,202 | 29,834 | 100% | 29,834 | 0.91 | 1.048 | 28,453 |
| V-Seal MF | 15,538 | 5,139 | 100% | 5,139 | 0.91 | 1.048 | 4,901 |
| Door Sweep SF | 5,306 | 26,290 | 100% | 26,290 | 0.91 | 1.048 | 25,072 |
| Door Sweep MF | 914 | 4,529 | 100% | 4,529 | 0.91 | 1.048 | 4,319 |
| Gaskets SF  | 63,672 | 18,195 | 100% | 18,195 | 0.91 | 1.048 | 17,352 |
| Gaskets MF | 10,968 | 3,134 | 100% | 3,134 | 0.91 | 1.048 | 2,989 |
| Rope Caulk SF – DAC\* | 32,310 | 8,049 | 100% | 8,049 | 1.00 | N/A | 8,049 |
| Rope Caulk MF – DAC\* | 6,330 | 1,577 | 100% | 1,577 | 1.00 | N/A | 1,577 |
| Foam Tape SF – DAC\* | 18,309 | 6,412 | 100% | 6,412 | 1.00 | N/A | 6,412 |
| Foam Tape MF – DAC\* | 3,587 | 1,256 | 100% | 1,256 | 1.00 | N/A | 1,256 |
| V-Seal SF – DAC\* | 18,309 | 6,056 | 100% | 6,056 | 1.00 | N/A | 6,056 |
| V-Seal MF – DAC\* | 3,587 | 1,186 | 100% | 1,186 | 1.00 | N/A | 1,186 |
| Door Sweep SF – DAC\* | 1,077 | 5,336 | 100% | 5,336 | 1.00 | N/A | 5,336 |
| Door Sweep MF – DAC\* | 211 | 1,045 | 100% | 1,045 | 1.00 | N/A | 1,045 |
| Gaskets SF – DAC\* | 12,924 | 3,693 | 100% | 3,693 | 1.00 | N/A | 3,693 |
| Gaskets MF – DAC\* | 2,532 | 724 | 100% | 724 | 1.00 | N/A | 724 |
| **Total**  | **614,276** | **365,953** | **100%** | **365,953** |  |  |  **382,493** |

Note: The ex-ante total in Table 5 differs by 31 therms relative to program ex-ante total in Table 10 due to rounding resulting from the process of breaking down kit-level savings into individual measure-level savings.

\* If deemed NTG is multiplied by 1.048 Non-Participant Spillover factor (NPSO) and the resulted NTG value is less than 1.00, the evaluation assigned a DAC NTG of 1.00. If the resulted NTG value is >1.00, evaluation used the >1.00 value for calculation of net savings impact.
*Source: Evaluation team analysis.*

## Impact Analysis Findings and Recommendations

The evaluation team determined verified gross savings for each measure by conducting a tracking system review and measure level calculations. Calculated verified gross savings applied Illinois TRM v12.0 methodology including inputs and formulas. The evaluation team’s verified gross savings calculation uses non-rounded input values for per-kit unit thermal savings. In contrast, Nicor Gas savings report extracts round ex-ante per-kit gross savings to two digits after the decimal point. These rounding differences cause minor differences in total therms for the program (typically less than 0.1%) and are not Nicor Gas calculation errors.

## Impact Parameter Estimates

Table 13 shows the unit Therm savings and realization rate findings by measure from our review. The realization rate is the ratio of the verified savings to the ex-ante savings. Following the table, we provide findings and recommendations, including a discussion of all measures with realization rates above or below 100%. Appendix A provides a description of the impact analysis methodology.

Table 13. Verified Gross Savings Parameters

| Measure | Unit Basis | Ex Ante Gross (Therms/unit) | Verified Gross (Therms/unit) | Realization Rate | Data Source(s) |
| --- | --- | --- | --- | --- | --- |
| **Water-Saving Kits** |  |  |  |  |  |
| Bath Aerators SF | Each | 0.64  |  0.64  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.4  |
| Bath Aerators MF | Each | 1.15  |  1.15  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.4  |
| Kitchen Aerators SF | Each | 5.88  |  5.88  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.4  |
| Kitchen Aerators MF | Each | 5.68  |  5.68  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.4  |
| Showerhead SF | Each | 7.29  |  7.29  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.5 |
| Showerhead MF | Each | 9.61  |  9.61  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.5 |
| Shower Timer SF | Each | 3.97  |  3.97  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.9 |
| Shower Timer MF | Each | 3.79  |  3.79  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.4.9 |
| **Weatherization Kits** |  |  |  |  |  |
| Outlet Cover SF | Each | 0.29  |  0.29  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Outlet Cover MF | Each | 0.29  |  0.29  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Foam Tape SF | Feet | 0.35  |  0.35  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Foam Tape MF | Feet | 0.35  |  0.35  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| V-Seal SF | Feet | 0.33  |  0.33  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| V-Seal MF | Feet | 0.33  |  0.33  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Door Sweep SF | Each | 4.95  |  4.95  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Door Sweep MF | Each | 4.95  |  4.95  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Rope Caulk SF | Feet | 0.25  |  0.25  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |
| Rope Caulk MF | Feet | 0.25  |  0.25  | 100% | 2024 Illinois TRM, v12.0, Vol.3, Section 5.6.1 |

Source: Evaluation team analysis.

## Findings and Recommendations

All 2024 kit level and measure level components were consistent with TRM (v12.0) inputs and formulas. No program participants received more than one hot water kit and two weatherization kits. Guidehouse found the tracking data was complete and all ex-ante savings were consistent with the appropriate calculations in the IL-TRM v12.0.

**Finding 1.** The tracking data estimated ex ante net savings for the market rate kit measures in a DAC area using a DAC NTG of 1.0. This approach does not consider exceptions for when the measure deemed NTG is greater than 1.0, or when a non-participant spillover is applied, in accordance with the Policy Manual 3.0.The evaluation team calculated verified Net Therms savings following the guidance in the Policy Manual 3.0, such that measures having deemed NTG greater than 1.0 will use the deemed value instead of the DAC NTG of 1.0.

**Recommendation 1.** If a measure has a deemed NTG value greater than 1.0 and it is in a DAC area, the ex-ante net savings reported should use the deemed NTG value of, in accordance with the Policy Manual 3.0. If the deemed NTG is less than 1.0 and multiplied by the NPSO results in a NTG lower than 1.0, then use the DAC NTG of 1.0.

##### Appendix A. Impact Analysis Methodology

The evaluation team determined verified gross savings for each program measure by conducting tracking system and savings calculation reviews. Measure inputs were checked against IL-TRM v12.0 inputs. The evaluation team also verified that each program measure meets the TRM defined physical, operational, and baseline characteristics. Verified gross realization rates are calculated by dividing the verified gross savings by the ex-ante gross savings.

##### Appendix B. Program Specific Inputs for the Illinois TRC

***Energy Savings Kits Income Eligible***

Table B‑1 shows the Total Resource Cost (TRC) cost-effectiveness analysis inputs available at the time of producing this impact evaluation report. Additional required cost data (e.g., measure costs, program level incentive and non-incentive costs), are not included in this table and will be provided to the evaluation team later. Guidehouse will include annual and lifetime water savings and greenhouse gas reductions in the end of year summary report.

Table B- 1. Verified Cost Effectiveness Inputs – Income Eligible

| Program Category | Program Path | Savings Category | DAC Project | Units | Quantity | Effective Useful Life | Early Replacement Flag | Verified Gross Annual Water Savings (Gallons) | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ESK Income Eligible** | **Water Savings Kits** | Kitchen Aerator | FALSE | Each | 4,264 | 10.0  | NO | 4,080,565 | 53,219  |  49,554  |  49,554  |
| Shower Timer | FALSE | Each | 4,264 | 2.0  | NO | 3,014,554 | 20,467  |  19,058  |  19,058  |
| Bathroom Aerator | FALSE | Each | 8,528 | 10.0  | NO | 1,250,830 | 17,992  |  16,753  |  16,753  |
| Showerhead | FALSE | Each | 8,528 | 10.0  | NO | 8,779,431 | 5,377  |  5,007  |  5,007  |
| **Weatherization Kits** | Rope Caulk | FALSE | Feet | 147,630 | 20.0  | NO | - | 38,711  |  41,068  |  41,068  |
| Foam Tape | FALSE | Feet | 83,657 | 20.0  | NO | - | 24,164  |  25,635  |  25,635  |
| V-Seal | FALSE | Feet | 83,657 | 20.0  | NO | - | 24,164  |  25,635  |  25,635  |
| Outlet Cover | FALSE | Each | 59,052 | 20.0  | NO | - | 20,955  |  22,231  |  22,231  |
| Door Sweep | FALSE | Each | 4,921 | 20.0  | NO | - | 8,372  |  8,881  |  8,881  |
| **Kit 5** | Rope Caulk | FALSE | Feet | 362,130 | 20.0  | NO | - | 78,437  |  78,437  |  78,437  |
| Window Insulation Kit | FALSE | Each | 60,355 | 20.0  | NO | - | 73,271  |  73,271  |  73,271  |
| Showerhead | FALSE | Each | 12,071 | 10.0  | NO | 12,422,556 | 56,444  |  56,444  |  56,444  |
| Foam Tape | FALSE | Feet | 205,207 | 20.0  | NO | - | 48,900  |  48,900  |  48,900  |
| V-Seal | FALSE | Feet | 205,207 | 20.0  | NO | - | 48,900  |  48,900  |  48,900  |
| Door Sweep | FALSE | Each | 12,071 | 20.0  | NO | - | 42,430  |  42,430  |  42,430  |
| Shower Timer | FALSE | Each | 12,071 | 2.0  | NO | 8,443,689 | 38,120  |  38,120  |  38,120  |
| Bathroom Aerator | FALSE | Each | 24,142 | 10.0  | NO | 3,098,650 | 9,874  |  9,874  |  9,874  |
| Kitchen Aerator | FALSE | Each | 12,071 | 10.0  | NO | 2,153,394 | 8,184  |  8,184  |  8,184  |
| Outlet Gasket | FALSE | Each | 48,284 | 20.0  | NO | - | 5,649  |  5,649  |  5,649  |
| Switch Gasket | FALSE | Each | 48,284 | 20.0  | NO | - | 5,649  |  5,649  |  5,649  |
| Temperature Setback  | FALSE | Each | 12,071 | 2.0  | NO | - | 706  |  706  |  706  |
| **Total or Weighted Average** |  |  |  | **16.0**  |  | **37,814,534**  |  **629,985** |  **630,388** |  **630,388** |

Source: Evaluation team analysis.

***Energy Savings Kits Market Rate***

Table B- 2. Verified Cost Effectiveness Inputs - Market Rate

| **Program Category** | **Program Path** | **Savings Category** | **DAC Project** | **Units** | **Quantity** | **Effective Useful Life** | **Early Replacement Flag** | **Verified Gross Annual Water Savings (Gallons)** | **Ex Ante Gross Savings (Therms)** | **Verified Gross Savings (Therms)** | **Verified Net Savings (Therms)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ESK Market Rate** | **Water Savings Kits** | Showerhead | FALSE | Each | 9,898 | 10.0  | NO | 13,634,652  |  75,711  |  75,711  |  87,280  |
|  | Kitchen Aerator | FALSE | Each | 4,951 | 10.0  | NO | 6,289,989  |  28,957  |  28,957  |  33,381  |
|  | Shower Timer | FALSE | Each | 4,951 | 2.0  | NO | 3,562,536  |  19,537  |  19,537  |  22,522  |
|  | Bathroom Aerator | FALSE | Each | 9,898 | 10.0  | NO | 1,807,102  |  7,104  |  7,104  |  8,190  |
|  | Showerhead - DAC | TRUE | Each | 2,154 | 10.0  | NO | 2,973,756  |  16,564  |  16,564  |  19,094  |
|  | Kitchen Aerator - DAC | TRUE | Each | 1,077 | 10.0  | NO | 1,363,888  |  6,295  |  6,295  |  7,257  |
|  | Shower Timer - DAC | TRUE | Each | 1,077 | 2.0  | NO | 772,482  |  4,247  |  4,247  |  4,895  |
|  | Bathroom Aerator - DAC | TRUE | Each | 2,154 | 10.0  | NO | 396,734  |  1,565  |  1,565  |  1,804  |
| **Weatherization Kits** | Rope Caulk | FALSE | Feet | 186,600 | 20.0  | NO | -  |  46,486  |  46,486  |  44,333  |
|  | Foam Tape | FALSE | Feet | 105,740 | 20.0  | NO | -  |  37,031  |  37,031  |  35,316  |
|  | V-Seal | FALSE | Feet | 105,740 | 20.0  | NO | -  |  34,974  |  34,974  |  33,354  |
|  | Door Sweep | FALSE | Each | 6,220 | 20.0  | NO | -  |  30,819  |  30,819  |  29,391  |
|  | Outlet Cover | FALSE | Each | 74,640 | 20.0  | NO | -  |  21,329  |  21,329  |  20,341  |
|  | Rope Caulk - DAC | TRUE | Feet | 38,640 | 20.0  | NO | -  |  9,626  |  9,626  |  9,626  |
|  | Foam Tape - DAC | TRUE | Feet | 21,896 | 20.0  | NO | -  |  7,668  |  7,668  |  7,668  |
|  | V-Seal - DAC | TRUE | Feet | 21,896 | 20.0  | NO | -  |  7,242  |  7,242  |  7,242  |
|  | Door Sweep - DAC | TRUE | Each | 1,288 | 20.0  | NO | -  |  6,382  |  6,382  |  6,382  |
|  | Outlet Cover - DAC | TRUE | Each | 15,456 | 20.0  | NO | -  |  4,417  |  4,417  |  4,417  |
| **Total or Weighted Average** |  |  |  |  | **15.1**  |  | **30,801,138**  |  **365,953**  |  **365,953**  |  **382,493**  |