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| Home Energy Savings 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 impact evaluation results of the Nicor Gas 2024 Home Energy Savings (HES) program and a summary of the energy impacts for the total program, as well as relevant measure and program structure details. The appendices present the impact analysis methodology and Illinois total resource cost (TRC) inputs. Program year 2024 covers January 1, 2024, through December 31, 2024.

# Program Description

The HES program includes an assessment and direct install (DI) component jointly implemented by Nicor Gas and ComEd and a rebate component for air sealing, insulation, and duct sealing work completed by approved contractors. This report focuses on natural gas savings achieved by Nicor Gas program participants. Savings from electricity measures are included in a separate evaluation report delivered to ComEd.

The HES program provides a free home energy assessment (HEA) performed by an energy advisor. The energy advisor collects information about the home’s energy use by examining the heating system (e.g., furnace or boiler), cooling system (air conditioner), water heater, and attic (if accessible). The energy advisor provides a customized report with recommendations identifying additional ways the customer can save energy and money. As part of the energy assessment and when appropriate, the energy advisor installs DI measures. The DI measures include showerheads, faucet aerators for bathrooms and kitchen, hot water pipe insulation, and a programmable or advanced thermostat. A Self-Assessment Program (SAP) option was added in 2023.

In addition to the free HEA and free DI measures, the HES program offers rebates for prescriptive building shell air sealing and insulation (ASI) measures for eligible homes, installed by an approved contractor, including air sealing, attic insulation, duct sealing, basement sidewall insulation, and wall insulation. Air sealing includes sealing gaps and cracks in a wall where air can enter or exit. The contractor performs a blower door test to measure the air leakage in the home. To receive the instant discount for attic insulation, a participant must have air sealing and attic insulation installed at the same time.

Starting in 2022 and continuing in 2023, the HES program included a Smart Thermostat Initiative path, through which Nicor Gas offered Nest-E thermostats to program participants to upgrade their existing thermostats.

The program had 1,766 participants in 2024 and completed 4,020 projects as shown in the following table.

Table 1. 2024 Volumetric Findings Detail

| Participation | Prescriptive | Self Assessment (SAP) | Smart Thermostat Initiative | Total |
| --- | --- | --- | --- | --- |
| Participants \* | 429 | 1,316 | 21 | 1,766 |
| Installed Projects † | 1,227 | 2,772 | 21 | 4,020 |
| Measure Types Installed ‡ | 6 | 10 | 11 | 27 |

\* Participants are defined as the distinct count of addresses.

† Installed Projects are defined as the distinct count of project IDs.

‡ Measure Types Installed are defined as the distinct count of Nicor Gas measure names.

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

| Program Path | Measure | Quantity Unit |  Installed Quantity |
| --- | --- | --- | --- |
| Prescriptive | Air Sealing | Projects | 1,114 |
| Air Sealing Without Attic Insulation | Projects | 754 |
| Attic Insulation | Square Feet | 1,378,260 |
| Basement/Sidewall Insulation | Square Feet | 31,506 |
| Duct Sealing | Projects | 765 |
| Wall Insulation | Square Feet | 35,589 |
| Self Assessment (SAP) | Advanced Thermostat (DI) - Blended | Each | 289 |
| Air Sealing - Door Sweep | Each | 2,482 |
| Bathroom Aerator SF (DI) | Each | 2,989 |
| Boiler Pipe Insulation | Linear Feet | 219 |
| DHW Pipe Insulation | Linear Feet | 3,894 |
| Handheld Showerhead (DI) SF | Each | 946 |
| Kitchen Aerator SF (DI) | Each | 1,052 |
| Programmable Thermostat (DI) | Each | 358 |
| Shower Flow Reducer | Each | 1,261 |
| Showerhead (DI) SF | Each | 585 |
| Smart Thermostat Initiative | Advanced Thermostat (DI) - Blended | Each | 5 |
| Advanced Thermostat (DI) - Manual | Each | 21 |
| Advanced Thermostat (DI) - Programmable | Each | 111 |
| Air Filter Replacement | Each | 101 |
| Air Sealing - Door Sweep | Each | 68 |
| Bathroom Aerator SF (DI) | Each | 50 |
| DHW Pipe Insulation | Linear Feet | 156 |
| Handheld Showerhead (DI) SF | Each | 5 |
| Kitchen Aerator SF (DI) | Each | 7 |
| Shower Flow Reducer | Each | 1 |
| Showerhead (DI) SF | Each | 43 |

Source: Nicor Gas tracking data and evaluation team analysis.

# Program Savings Detail

Table 3 summarizes the energy savings the HES Program achieved by path in 2024.

Table 3. 2024 Annual Energy Savings Summary

| Program Category | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Non-Disadvantaged Communities | Prescriptive | 365,464 | 1.00 | 365,461 | Varies | 1.048 | 362,881 |
| Self Assessment (SAP) | 72,489 | 1.00 | 72,469 | Varies | 1.048 | 81,842 |
| Smart Thermostat Initiative | 11,620 | 1.00 | 11,620 | Varies | 1.048 | 11,917 |
| *Non-DAC Subtotal* |  | ***449,573*** | ***1.00*** | ***449,550*** |  |  | ***456,640*** |
| Disadvantaged Communities | Prescriptive | 142,179 | 1.00 | 142,179 | Varies | 1.048 | 148,952 |
| Self Assessment (SAP) | 21,590 | 1.00 | 21,497 | Varies | 1.048 | 24,114 |
| Smart Thermostat Initiative | 362 | 1.00 | 362 | Varies | 1.048 | 377 |
| *DAC Subtotal* |  | ***164,131*** | ***1.00*** | ***164,038*** |  |  | ***173,443*** |
| Total  |  | **613,704** | **1.00** | **613,588** |  |  | **630,082** |  |

\* 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/>. For

‡ For DAC projects, 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.

# Program Savings by Measure

The program includes 51 measures as shown in the following table. The Duct Sealing and Attic Insulation contributed the most savings.

Table 4. 2024 Annual Energy Savings by Measure

| Program Category | Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Non-Disadvantaged Communities | Prescriptive | Air Sealing | 62,235 | 1.00 | 62,224 | 0.88 | 1.048 | 57,386 |
| Air Sealing Without Attic Insulation | 42,621 | 1.00 | 42,629 | 0.93 | 1.048 | 41,548 |
| Attic Insulation | 104,034 | 1.00 | 104,022 | 0.89 | 1.048 | 97,023 |
| Basement/Sidewall Insulation | 21,476 | 1.00 | 21,487 | 0.95 | 1.048 | 21,392 |
| Duct Sealing | 131,522 | 1.00 | 131,522 | 1.03 | 1.048 | 141,970 |
| Wall Insulation | 3,577 | 1.00 | 3,577 | 0.95 | 1.048 | 3,561 |
| Self Assessment (SAP) | Advanced Thermostat (DI) - Blended | 20,064 | 1.00 | 20,064 | 0.96 | 1.048 | 20,186 |
| Air Sealing - Door Sweep | 9,793 | 1.00 | 9,793 | 1.07 | 1.048 | 10,981 |
| Bathroom Aerator SF (DI) | 1,932 | 1.00 | 1,932 | 1.17 | 1.048 | 2,369 |
| Boiler Pipe Insulation | 70 | 1.06 | 73.82 | 1.07 | 1.048 | 83 |
| DHW Pipe Insulation | 6,235 | 1.00 | 6,235 | 1.07 | 1.048 | 6,992 |
| Handheld Showerhead (DI) SF | 6,623 | 1.00 | 6,623 | 1.17 | 1.048 | 8,121 |
| Kitchen Aerator SF (DI) | 6,043 | 1.00 | 6,044 | 1.17 | 1.048 | 7,410 |
| Programmable Thermostat (DI) | 8,737 | 1.00 | 8,712 | 1.07 | 1.048 | 9,769 |
| Shower Flow Reducer | 8,884 | 1.00 | 8,884 | 1.17 | 1.048 | 10,894 |
| Showerhead (DI) SF | 4,109 | 1.00 | 4,109 | 1.17 | 1.048 | 5,038 |
| Smart Thermostat Initiative | Advanced Thermostat (DI) - Blended | 427 | 1.00 | 427 | 0.96 | 1.048 | 430 |
| Advanced Thermostat (DI) - Manual | 1,948 | 1.00 | 1,948 | 0.96 | 1.048 | 1,960 |
| Advanced Thermostat (DI) - Programmable | 7,492 | 1.00 | 7,492 | 0.96 | 1.048 | 7,538 |
| Air Filter Replacement | 760 | 1.00 | 760 | 1.07 | 1.048 | 853 |
| Air Sealing - Door Sweep | 475 | 1.00 | 475 | 1.07 | 1.048 | 532 |
| Bathroom Aerator SF (DI) | 62 | 1.00 | 62 | 1.17 | 1.048 | 76 |
| DHW Pipe Insulation | 285 | 1.00 | 285 | 1.07 | 1.048 | 320 |
| Handheld Showerhead (DI) SF | 10 | 1.00 | 10 | 1.17 | 1.048 | 12 |
| Kitchen Aerator SF (DI) | 39 | 1.00 | 39 | 1.17 | 1.048 | 48 |
| Shower Flow Reducer | 1 | 1.00 | 1 | 1.17 | 1.048 | 1 |
| Showerhead (DI) SF | 120 | 1.00 | 120 | 1.17 | 1.048 | 147 |
| *Non-DAC Subtotal* |  |  | ***449,573*** | ***1.00*** | ***449,549*** |  |  | ***456,639*** |
| Disadvantaged Communities | Prescriptive | Air Sealing\*\* | 6,131 | 1.00 | 6,131 | 1.00 | N/A | 6,131 |
| Air Sealing Without Attic Insulation\*\* | 37,325 | 1.00 | 37,325 | 1.00 | N/A | 37,325 |
| Attic Insulation\*\* | 12,103 | 1.00 | 12,103 | 1.00 | N/A | 12,103 |
| Basement/Sidewall Insulation\*\* | 1,222 | 1.00 | 1,222 | 1.00 | N/A | 1,222 |
| Duct Sealing | 85,257 | 1.00 | 85,257 | 1.03 | 1.048 | 92,029 |
| Wall Insulation\*\* | 143 | 1.00 | 143 | 1.00 | N/A | 143 |
| Self Assessment (SAP) | Advanced Thermostat (DI) – Blended\*\* | 6,126 | 1.00 | 6,126 | 1.01 | N/A | 6,163 |
| Air Sealing - Door Sweep | 2,186 | 1.00 | 2,186 | 1.07 | 1.048 | 2,452 |
| Bathroom Aerator SF (DI) | 441 | 0.99 | 435 | 1.17 | 1.048 | 534 |
| Boiler Pipe Insulation | 27 | 1.05 | 28 | 1.07 | 1.048 | 31 |
| DHW Pipe Insulation | 1,379 | 1.00 | 1,379 | 1.07 | 1.048 | 1,546 |
| Handheld Showerhead (DI) SF | 1,668 | 0.99 | 1,658 | 1.17 | 1.048 | 2,033 |
| Kitchen Aerator SF (DI) | 1,615 | 1.00 | 1,615 | 1.17 | 1.048 | 1,980 |
| Programmable Thermostat (DI) | 5,020 | 0.99 | 4,962 | 1.07 | 1.048 | 5,564 |
| Shower Flow Reducer | 2,137 | 1.00 | 2,126 | 1.17 | 1.048 | 2,607 |
| Showerhead (DI) SF | 992 | 0.99 | 982 | 1.17 | 1.048 | 1,204 |
| Smart Thermostat Initiative | Advanced Thermostat (DI) – Manual\*\* | 205 | 1.00 | 205 | 1.01 | N/A | 206 |
| Advanced Thermostat (DI) – Programmable\*\* | 71 | 1.00 | 71 | 1.01 | N/A | 72 |
| Air Filter Replacement | 31 | 1.00 | 31 | 1.07 | 1.048 | 35 |
| Air Sealing - Door Sweep | 22 | 1.00 | 22 | 1.07 | 1.048 | 25 |
| DHW Pipe Insulation | 11 | 1.00 | 11 | 1.07 | 1.048 | 13 |
| Handheld Showerhead (DI) SF | 1 | 1.00 | 1 | 1.17 | 1.048 | 1 |
| Kitchen Aerator SF (DI) | 14 | 1.00 | 14 | 1.17 | 1.048 | 17 |
| Showerhead (DI) SF | 6 | 1.00 | 6 | 1.17 | 1.048 | 7 |
| *DAC Subtotal* |  |  | ***164,132*** | ***1.00*** | ***164,038*** |  |  | ***173,443*** |
| Total  |  |  | **613,704** | **1.00** | **613,588** |  |  | **630,082** |

\* 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/>. Disadvantaged communities (DAC) designated sites based on census tract have an NTG of 1.00.

‡ Non-participant spillover (NPSO) factor of 1.048.

\*\* For DAC projects, 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

## Impact Parameter Estimates

Table 5 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 5. Verified Gross Savings Parameters

| Measure | Unit Basis | Ex Ante Gross (Therms/unit) | Verified Gross (Therms/unit) | Realization Rate | Data Source(s) |
| --- | --- | --- | --- | --- | --- |
| Advanced Thermostat (DI) - Blended | Each | Varies | Varies | 100% | TRM Section 5.3.16†, PTD\* |
| Advanced Thermostat (DI) - Manual | Each | 102.51 | 102.51 | 100% | TRM Section 5.3.16†, PTD\* |
| Advanced Thermostat (DI) - Programmable | Each | 71.36 | 71.36 | 100% | TRM Section 5.3.16†, PTD\* |
| Air Filter Replacement | Each | 7.84 | 7.84 | 100% | TRM Section 5.3.21†, PTD\* |
| Air Sealing | Projects | Varies | Varies | 78%, 100% | TRM Section 5.6.1†, PTD\* |
| Air Sealing - Door Sweep | Each | Varies | Varies | 100% | TRM Section 5.6.1†, PTD\* |
| Air Sealing Without Attic Insulation | Projects | Varies | Varies | 100%, 112% | TRM Section 5.6.1†, PTD\* |
| Attic Insulation | Square Feet | Varies | Varies | 77%, 100% | TRM Section 5.6.5†, PTD\* |
| Basement/Sidewall Insulation | Square Feet | Varies | Varies | 100%, 112% | TRM Section 5.6.5†, PTD\* |
| Bathroom Aerator SF (DI) | Each | Varies | Varies | 53%, 100% | TRM Section 5.4.4†, PTD\* |
| Boiler Pipe Insulation | Linear Feet | 1.37, 1.53 | 1.37, 1.53, 2.74, 3.06 | 100%, 200% | TRM Section 5.3.2†, PTD\* |
| DHW Pipe Insulation | Linear Feet | 6.05, 11.41, 12.10 | 6.04, 11.41, 12.10 | 100% | TRM Section 5.4.1†, PTD\* |
| Duct Sealing | Projects | Varies | Varies | 100% | TRM Section 5.3.4†, PTD\* |
| Handheld Showerhead (DI) SF | Each | Varies | Varies | 72%, 100% | TRM Section 5.4.4†, PTD\* |
| Kitchen Aerator SF (DI) | Each | Varies | Varies | 100% | TRM Section 5.4.4†, PTD\* |
| Programmable Thermostat (DI) | Each | Varies | Varies | 100% | TRM Section 5.3.11†, PTD\* |
| Shower Flow Reducer | Each | Varies | Varies | 100% | TRM Section 5.4.4†, PTD\* |
| Showerhead (DI) SF | Each | Varies | Varies | 72%, 100% | TRM Section 5.4.4†, PTD\* |
| Wall Insulation | Square Feet | Varies | Varies | 100% | TRM Section 5.6.4†, 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>.

## Findings and Recommendations

Overall, the findings listed below had a minor impact on the savings, with the program-level realization rate being 100%.

**Finding 1.** For 1,351 projects, the reported zip code from the tracking data was located outside of Illinois (e.g. PID-2024.12.31-243799, PID-2024.12.26-243590, PID-2024.12.26-243563). Reported zip codes did not align with climate zones in the tracking data for 69 projects (e.g. PID-2024.02.11-215199, PID-2024.02.11-215203, PID-2024.03.01-217097, PID-2024.07.31-231331, etc.). Climate zones were blank for 175 projects (e.g. PID-2024.01.10-209492, PID-2024.01.31-211860, PID-2024.02.06-212033, etc.). Guidehouse assumed the reported county reflected the correct climate zone.

**Recommendation 1.** Ensure that the zip code reported in the "Project" tab of the tracking data aligns with the county and the climate zone included in the tracking data.

**Finding 2.** Four instances of Boiler Pipe Insulation showed a quantity of 6 in the tracking data where ex ante savings reflected a quantity of 3 (MEA-2024.10.01-780179, MEA-2024.11.13-807931, MEA-2024.11.13-808175, and MEA-2024.12.10-821853). Guidehouse used the reported quantity (6) for the verified savings calculation.

**Recommendation 2.** Ensure the correct quantity is reflected for Boiler Pipe Insulation in the tracking data. Update gross ex ante savings values for these four measures to reflect quantity 6 if that is the correct quantity.

**Finding 3.** Eight instances of Low Flow Showerheads had “ResidentialBuildingType” column as N/A in the tracking data (MEA-2024.03.12-664677, MEA-2024.03.12-664674, MEA-2024.06.18-724277, MEA-2024.08.27-764492, MEA-2024.08.27-764493, MEA-2024.08.27-765042, MEA-2024.11.27-816858, MEA-2024.11.27-817131). Guidehouse assumed Single Family for these eight measures.

**Recommendation 3.** Ensure the ResidentialBuildingType column in the "Project" tab of tracking data is populated for all measures.

**Finding 4.** Four instances of Low Flow Bathroom Aerators had ResidentialBuildingType column as N/A in the tracking data (MEA-2024.03.12-664671, MEA-2024.06.18-724275, MEA-2024.08.27-764491, and MEA-2024.11.27-816856). Guidehouse assumed Single Family for these four measures.

**Recommendation 4.** Ensure the ResidentialBuildingType column in the "Project" tab of tracking data is populated for all measures.

**Finding 5.** Guidehouse could not reconcile the savings for two instances of Air Sealing (MEA-2024.09.25-777436 and MEA-2024.10.12-785899), one instance of Attic Insulation (MEA-2024.10.12-785900), and one instance of Basement/Sidewall Insulation (MEA-2024.09.25-777435) where realization rates are not 100%. Guidehouse used the savings parameters provided in the tracking data for these measures.

**Recommendation 5.** Ensure the actual/custom values in the tracking data align with what is used for the ex ante savings calculation.

##### Appendix A. Impact Analysis Methodology

The evaluation team used the same impact methodology for each component. Verified gross savings were determined for each program measure by:

* Reviewing the savings algorithm inputs in the final 2024 tracking data for agreement with the IL-TRM v12.0 and IL-TRM Errata, where applicable.
* Validating the savings algorithm was applied correctly.
* Cross-checking per-unit savings values in the program tracking data with the verified values in Guidehouse’s calculations.
* Multiplying the verified per-unit savings value by the quantity reported in the tracking data. The team calculated verified net savings by multiplying the verified gross savings estimates by a NTG ratio. In Program Year 2024, NTG estimates used to calculate the net verified savings were based on past evaluation research and defined by a consensus process through the Illinois SAG.
* For DAC projects, 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.

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

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

| Program Path | Savings Category | Units | Quantity | Effective Useful Life | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Prescriptive | Air Sealing | Projects | 1,114 | 20.00 | 68,365 | 68,355 |  63,516  |
| Air Sealing Without Attic Insulation | Projects | 754 | 20.00 | 79,945 | 79,953 |  78,872  |
| Attic Insulation | Square Feet | 13,78,260 | 20.00 | 116,136 | 116,125 |  109,126  |
| Basement/Sidewall Insulation | Square Feet | 31,506 | 20.00 | 22,698 | 22,709 |  22,614  |
| Duct Sealing | Projects | 765 | 18.50 | 216,778 | 216,778 |  233,999  |
| Wall Insulation | Square Feet | 35,589 | 20.00 | 3,720 | 3,720 |  3,705  |
| Self Assessment (SAP) | Advanced Thermostat (DI) - Blended | Each | 289 | 11.00 | 26,189 | 26,189 |  26,349  |
| Air Sealing - Door Sweep | Each | 2,482 | 20.00 | 11,979 | 11,979 |  13,433  |
| Bathroom Aerator SF (DI) | Each | 2,989 | 10.00 | 2,373 | 2,367 |  2,903  |
| Boiler Pipe Insulation | Linear Feet | 219 | 15.00 | 96 | 102 |  114  |
| DHW Pipe Insulation | Linear Feet | 3,894 | 15.00 | 7,614 | 7,614 |  8,538  |
| Handheld Showerhead (DI) SF | Each | 946 | 10.00 | 8,291 | 8,281 |  10,153  |
| Kitchen Aerator SF (DI) | Each | 1,052 | 10.00 | 7,658 | 7,658 |  9,390  |
| Programmable Thermostat (DI) | Each | 358 | 11.00 | 13,756 | 13,674 |  15,333  |
| Shower Flow Reducer | Each | 1,261 | 10.00 | 11,021 | 11,011 |  13,501  |
| Showerhead (DI) SF | Each | 585 | 10.00 | 5,101 | 5,091 |  6,242  |
| Smart Thermostat Initiative | Advanced Thermostat (DI) - Blended | Each | 5 | 11.00 | 427 | 427 |  430  |
| Advanced Thermostat (DI) - Manual | Each | 21 | 11.00 | 2,153 | 2,153 |  2,166  |
| Advanced Thermostat (DI) - Programmable | Each | 111 | 11.00 | 7,564 | 7,564 |  7,610  |
| Air Filter Replacement | Each | 101 | 3.00 | 792 | 792 |  888  |
| Air Sealing - Door Sweep | Each | 68 | 20.00 | 497 | 497 |  557  |
| Bathroom Aerator SF (DI) | Each | 50 | 10.00 | 62 | 62 |  76  |
| DHW Pipe Insulation | Linear Feet | 156 | 15.00 | 297 | 297 |  333  |
| Handheld Showerhead (DI) SF | Each | 5 | 10.00 | 11 | 11 |  13  |
| Kitchen Aerator SF (DI) | Each | 7 | 10.00 | 53 | 53 |  65  |
| Shower Flow Reducer | Each | 1 | 10.00 | 1 | 1 |  1  |
| Showerhead (DI) SF | Each | 43 | 10.00 | 126 | 126 |  154  |
|  |  |  | **18.08** | **613,704** | **613,588** | **630,082** |

Source: Evaluation team analysis