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|  | Multi-Family Market Rate Impact Evaluation Report  Energy Efficiency Plan: Program Year 2024  (1/1/2024-12/31/2024) | | | |
|  | Prepared for:  Peoples Gas and North Shore Gas  DRAFT  March 27, 2025 | | | |
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# Introduction

This report presents the results of the impact evaluation of the Peoples Gas (PGL) and North Shore Gas (NSG) 2024 Multi-Family Market Rate (MF MR) programs. It presents a summary of the energy impacts for the total program and broken out by relevant measure and program structure details. The appendix presents the impact analysis methodology. Program year 2024 covers January 1, 2024 through December 31, 2024.

# Program Description

The MF MR Program is designed to provide a “one-stop-shop” to multi-family property owners and managers of buildings with three or more units to achieve comprehensive improvements in energy efficiency that previously would have required accessing multiple programs. The Multi-Family Program delivery approach consists of four paths, described below.

1. The **Direct Install (DI)** and **Energy Assessment “Jumpstart”** path provides free energy efficiency products in residential dwelling units (IU) and common areas (CA). The energy assessment identifies additional comprehensive efficiency upgrades that allow participants to implement deeper retrofit measures through other delivery paths. Program did not have completed DI projects in 2024.
2. The **Prescriptive Rebate** path provides standardized incentives for energy efficient equipment based on the size and efficiency of the equipment installed or on a per unit basis.
3. The **Partner Trade Ally (PTA)** path provides standardized incentives for energy efficient equipment, similar to the Prescriptive Rebate path. The PTA path additionally provides higher incentives to a network of partner trade allies (PTAs) who are selected, screened, and registered with the Multi-Family Program. In turn, the PTAs offer larger rebates than prescriptive rebates to their customers to install energy efficient products.
4. The **Custom** path provides technical services and custom rebates for non-standard building improvement upgrades as well as incentive opportunities for energy efficient new construction projects in multi-family buildings. Program did not have completed custom projects in 2024.

The Multi-Family Market Rate Program had 123 participants in 2024 and completed 132 projects as shown in the following table.

Table 1. 2024 Volumetric Summary for PGL

|  |  |  |  |
| --- | --- | --- | --- |
| Participation | Partner Trade Ally | Prescriptive | Total |
| Participants \* | 109 | 14 | 123 |
| Installed Projects † | 118 | 14 | 132 |
| Measure Types Installed ‡ | 21 | 12 | 33 |

\* Participants are defined as distinct count of addresses.

† Installed Projects are defined as unique Work Order IDs.  
‡ Measure Types Installed are the distinct count of Peoples Gas measure names.  
*Source: Peoples Gas tracking data and Guidehouse evaluation team analysis.*

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

Table 2. 2024 Installed Measure Quantities for PGL

| Program Path | Measure | Quantity Unit | Installed Quantity |
| --- | --- | --- | --- |
| Partner Trade Ally | Steam Traps | Unit | 2,869 |
| Pipe Insulation | Ln Ft | 9,102 |
| Boiler Tune Up | MBH | 114,120 |
| On Demand DHW Control | Unit | 586 |
| Steam Pipe Averaging Controls | Unit | 577 |
| High Efficiency Boiler | MBH | 10 |
| Central Water Heater | Unit | 196 |
| Steam Fitting Insulation | Unit | 36 |
| Draft Controls | MBH | 3,736 |
| DHW Tank Insulation | Sq Ft | 69 |
| Air Sealing | CFM | 3,964 |
| Attic Insulation | Sq Ft | 966 |
| Duct Sealing | CFM | 33 |
| Assessment/No Savings | Unit | 8,582 |
| Steam Traps - DAC | Unit | 503 |
| Pipe Insulation - DAC | Ln Ft | 1,959 |
| Boiler Tune Up - DAC | MBH | 1,260 |
| Assessment/No Savings - DAC | Unit | 1,360 |
| Prescriptive | Pipe Insulation (CA) | Ln Ft | 540 |
| Linkageless Controls | MBH | 20,000 |
| Boiler Tune Up | MBH | 25,006 |
| Steam Traps | Unit | 74 |
| Draft Controls | MBH | 20,000 |
| High Efficiency Furnace (IU) | Unit | 3 |
| High Efficiency Boiler | MBH | 2 |
| Attic Air Sealing | Ln Ft | 2,400 |
| Attic Insulation | Sq Ft | 1,520 |
| Advanced Thermostat (IU) | Unit | 1 |
| Steam Pipe Averaging Controls - DAC | Unit | 12 |
| High Efficiency Boiler - DAC | MBH | 1 |
| Programmable Thermostat (IU) - DAC | Unit | 1 |
| Pipe Insulation (CA) | Ln Ft | 540 |
| Linkageless Controls | MBH | 20,000 |

*Source: Peoples Gas tracking data and evaluation team analysis*

The NSG Multi-Family Market Rate Program had four participants in 2024 and completed four projects as shown in the following table.

Table 3. 2024 Volumetric Summary for NSG

|  |  |  |  |
| --- | --- | --- | --- |
| Participation | Partner Trade Ally | Prescriptive | Total |
| Participants \* | 2 | 2 | 4 |
| Installed Projects † | 2 | 2 | 4 |
| Measure Types Installed ‡ | 5 | 1 | 6 |

\* Participants are defined as distinct count of addresses.

† Installed Projects are defined as unique Work Order IDs.  
‡ Measure Types Installed are the distinct count of North Shore Gas measure names.  
*Source: North Shore Gas tracking data and evaluation team analysis.*

Table 4 summarizes the installed measure quantities that are the basis for verified energy savings.

Table 4. 2024 Installed Measure Quantities for NSG

|  |  |  |  |
| --- | --- | --- | --- |
| Program Path | Measure | Quantity Unit | Installed Quantity |
| Partner Trade Ally | Pipe Insulation | Ln Ft | 331 |
| Pipe Insulation - DAC | Ln Ft | 97 |
| DHW Tune Up - DAC | Unit | 18 |
| Steam Fitting Insulation - DAC | Unit | 5 |
| Prescriptive | High Efficiency Furnace (IU) | Unit | 2 |

Source: North Shore Gas tracking data and evaluation team analysis.

# Program Savings Detail

Table 5 summarizes the annual energy savings the PGL Multi-Family Market Rate Program achieved by the Partner Trade Ally and Prescriptive paths in 2024.

Table 5. 2024 Annual Energy Savings Summary for PGL

| Program Category | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Multi-Family Market Rate, Non-DAC | Partner Trade Ally | 701,437 | 100% | 701,460 | 0.88 | 1.083 | 668,520 |
| Prescriptive | 48,753 | 100% | 48,753 | 0.87 | 1.083 | 45,935 |
| ***Non-DAC Subtotal*** | | ***750,189*** | ***100%*** | ***750,213*** |  |  | ***714,455*** |
| Multi-Family Market Rate, DAC | Partner Trade Ally – DAC\*\* | 103,150 | 100% | 103,153 | 1.00 | N/A | 103,153 |
| Prescriptive – DAC\*\* | 916 | 100% | 919 | 1.00 | N/A | 919 |
| ***DAC Subtotal*** | | ***104,066*** | ***100%*** | ***104,072*** |  |  | ***104,072*** |
| **Total** | | **854,255** | **100%** | **854,285** |  |  | **818,527** |

\* 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.

\*\* For DAC projects, if deemed NTG is multiplied by 1.083 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 net savings impact.

‡ Non-participant spillover (NPSO) factor of 1.083.

Source: Evaluation team analysis.

Table 6 summarizes the annual energy savings the NSG Multi-Family Market Rate Program achieved by the Partner Trade Ally and Prescriptive paths in 2024.

Table 6. 2024 Annual Energy Savings Summary for NSG

| Program Category | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Multi-Family Market Rate, Non-DAC | Partner Trade Ally | 1,328 | 100% | 1,328 | 0.88 | 1.083 | 1,266 |
| Prescriptive | 252 | 100% | 252 | 0.87 | 1.083 | 237 |
| ***Non-DAC Subtotal*** | | ***1,580*** | ***100%*** | ***1,580*** |  |  | ***1,503*** |
| Multi-Family Market Rate, DAC | Partner Trade Ally – DAC\*\* | 2,003 | 100% | 2,002 | 1.00 | N/A | 2,002 |
| ***DAC Subtotal*** | | ***2,003*** | ***100%*** | ***2,002*** | ***1.00*** | ***N/A*** | ***2,002*** |
| **Total** | | **3,582** | **100%** | **3,582** |  |  | **3,505** |

\* 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.

\*\* For DAC projects, if deemed NTG is multiplied by 1.083 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 net savings impact.

‡ Non-participant spillover (NPSO) factor of 1.083.

Source: Evaluation team analysis.

# Program Savings by Measure

The PGL program includes two Program Paths, PTA and Prescriptive, and 26 measures as shown in Table 7. Steam Traps and Pipe Insulation measures contributed the most savings.

Table 7. 2024 Annual Energy Savings by Measure for PGL

| Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Partner Trade Ally | Steam Traps | 500,287 | 100% | 500,304 | 0.88 | 1.083 | 476,810 |
| Pipe Insulation | 55,326 | 100% | 55,326 | 0.88 | 1.083 | 52,728 |
| Boiler Tune Up | 53,494 | 100% | 53,494 | 0.88 | 1.083 | 50,982 |
| On Demand DHW Control | 36,742 | 100% | 36,742 | 0.88 | 1.083 | 35,017 |
| Steam Pipe Averaging Controls | 35,248 | 100% | 35,248 | 0.88 | 1.083 | 33,593 |
| High Efficiency Boiler | 16,027 | 100% | 16,034 | 0.88 | 1.083 | 15,281 |
| Central Water Heater | 1,861 | 100% | 1,861 | 0.88 | 1.083 | 1,774 |
| Steam Fitting Insulation | 987 | 100% | 987 | 0.88 | 1.083 | 941 |
| Draft Controls | 621 | 100% | 621 | 0.88 | 1.083 | 591 |
| DHW Tank Insulation | 382 | 100% | 382 | 0.88 | 1.083 | 364 |
| Air Sealing | 305 | 100% | 305 | 0.88 | 1.083 | 290 |
| Attic Insulation | 135 | 100% | 135 | 0.88 | 1.083 | 129 |
| Duct Sealing | 22 | 100% | 22 | 0.88 | 1.083 | 21 |
| Steam Traps – DAC\*\* | 91,007 | 100% | 91,010 | 1.00 | N/A | 91,010 |
| Pipe Insulation – DAC\*\* | 11,552 | 100% | 11,552 | 1.00 | N/A | 11,552 |
| Boiler Tune Up – DAC\*\* | 591 | 100% | 591 | 1.00 | N/A | 591 |
| ***Partner Trade Ally Subtotal*** | | ***804,587*** | ***100%*** | ***804,613*** |  |  | ***771,673*** |
| Prescriptive | Pipe Insulation (CA) | 16,408 | 100% | 16,408 | 0.87 | 1.083 | 15,459 |
| Linkageless Controls | 12,624 | 100% | 12,624 | 0.87 | 1.083 | 11,894 |
| Boiler Tune Up | 11,722 | 100% | 11,722 | 0.87 | 1.083 | 11,044 |
| Steam Traps | 3,615 | 100% | 3,615 | 0.87 | 1.083 | 3,406 |
| Draft Controls | 3,322 | 100% | 3,322 | 0.87 | 1.083 | 3,130 |
| High Efficiency Furnace (IU) | 378 | 100% | 378 | 0.87 | 1.083 | 356 |
| High Efficiency Boiler | 327 | 100% | 328 | 0.87 | 1.083 | 309 |
| Attic Air Sealing | 196 | 100% | 196 | 0.87 | 1.083 | 185 |
| Attic Insulation | 95 | 100% | 95 | 0.87 | 1.083 | 89 |
| Advanced Thermostat (IU) | 67 | 100% | 67 | 0.87 | 1.083 | 63 |
| Steam Pipe Averaging Controls – DAC\*\* | 733 | 100% | 733 | 1.00 | N/A | 733 |
| High Efficiency Boiler – DAC\*\* | 146 | 100% | 146 | 1.00 | N/A | 146 |
| Programmable Thermostat (IU) – DAC\*\* | 37 | 109% | 41 | 1.00 | N/A | 41 |
| ***Prescriptive Subtotal*** | | ***49,668*** | ***100%*** | ***49,672*** |  |  | ***46,855*** |
| ***Total*** | | **854,255** | **100%** | **854,285** |  |  | **818,527** |

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.

\*\* For DAC projects, if deemed NTG is multiplied by 1.083 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 net savings impact.

‡ Non-participant spillover (NPSO) factor of 1.083.

Source: Evaluation team analysis.

The NSG program had four measures as shown in Table 8. Pipe Insulation contributed the most savings in both Non-DAC and DAC areas.

Table 8. 2024 Annual Energy Savings by Measure for NSG

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | NSPO‡ | Verified Net Savings (Therms) |
| Partner Trade Ally | Pipe Insulation | 1,328 | 100% | 1,328 | 0.88 | 1.083 | 1,266 |
| Pipe Insulation – DAC\*\* | 1,851 | 100% | 1,851 | 1.00 | N/A | 1,851 |
| Steam Fitting Insulation – DAC\*\* | 101 | 100% | 101 | 1.00 | N/A | 101 |
| DHW Tune Up – DAC\*\* | 51 | 100% | 51 | 1.00 | N/A | 51 |
| ***Partner Trade Ally Subtotal*** | | ***3,330*** | ***100%*** | ***3,330*** |  |  | ***3,268*** |
| Prescriptive | High Efficiency Furnace (IU) | 252 | 100% | 252 | 0.87 | 1.083 | 237 |
| ***Prescriptive Subtotal*** | | ***252*** | ***100%*** | ***252*** | ***0.94*** |  | ***237*** |
| ***Total*** | | **3,582** | **100%** | **3,582** |  |  | **3,505** |

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.

\*\* For DAC projects, if deemed NTG is multiplied by 1.083 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 net savings impact.

‡ Non-participant spillover (NPSO) factor of 1.083.

Source: Evaluation team analysis.

# Impact Analysis Findings and Recommendations

The evaluation team developed several findings and recommendations based on the 2024 evaluation. The overall impact of these findings on the program is minimal, as the program achieved a 100% realization rate.

## Impact Parameter Estimates

Table 9 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. Appendix A provides a description of the impact analysis methodology.

Table 9. Verified Gross Savings Parameters

| Measure | Unit Basis | Ex Ante Gross (therms/unit) | | Verified Gross (therms/unit) | Realization Rate | TRM Section† |
| --- | --- | --- | --- | --- | --- | --- |
| Advanced Thermostat (IU) | Unit | 67 | 67 | | 100% | 5.3.16 |
| Air Sealing | CFM | Varies | Varies | | 100% | 5.6.1 |
| Attic Air Sealing | Ln Ft | Varies | Varies | | 100% | 5.6.1 |
| Attic Insulation | Sq Ft | Varies | Varies | | 100% | 5.6.5 |
| Boiler Tune Up | MBH | Varies | Varies | | 100% | 4.4.2 |
| Central Water Heater | Unit | 9.49 | 9.49 | | 100% | 4.3.7 |
| DHW Tank Insulation | Sq Ft | Varies | Varies | | 100% | 4.3.12 |
| DHW Tune Up | Unit | Varies | Varies | | 100% | 4.3.10 |
| Draft Controls | MBH | Varies | Varies | | 100% | 4.4.23 |
| Duct Sealing | CFM | Varies | Varies | | 100% | 5.3.4 |
| High Efficiency Boiler | MBH | Varies | Varies | | 100% | 4.4.10 |
| High Efficiency Furnace (IU) | Unit | Varies | Varies | | 100% | 5.3.7 |
| Linkageless Controls | MBH | Varies | Varies | | 100% | 4.4.21 |
| On Demand DHW Control | Unit | 62.7 | 62.7 | | 100% | 4.3.8 |
| Pipe Insulation | Ln Ft | Varies | Varies | | 100% | 4.4.14 |
| Pipe Insulation (CA) | Ln Ft | Varies | Varies | | 100% | 4.4.14 |
| Programmable Thermostat (IU) | Unit | 37 | 41 | | 109% | 5.3.11 |
| Steam Fitting Insulation | Unit | Varies | Varies | | 100% | 4.4.14 |
| Steam Pipe Averaging Controls | Unit | Varies | Varies | | 100% | 4.4.36 |
| Steam Traps | Unit | Varies | Varies | | 100% | 4.4.16 |

\* Program Tracking Data (PTD) provided by Peoples Gas and North Shore 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

**Finding 1.** In 197 out of 200 instances, the PGL and NSG program data reported NTG ratios inconsistent with the deemed values for PTA and the Prescriptive Rebates paths.For Non-Disadvantaged Communities, the NTG ratios are 0.88 and 0.87 respectively which should be reflected in the tracking database.

**Recommendation 1.** If calculating net savings, ensure NTG ratios for Non-Disadvantaged Communities are consistent with the estimates published on the SAG website.

**Finding 2.** The evaluation team adjusted two variables in the therms savings calculation for the Programmable Thermostat measure (WO-5861954). First, we adjusted the Gas Heating Consumption value from the ex-ante Average (955 therms) to the Chicago Climate Zone (1,005 therms) based on the site address in the program data. Second, we modified the percentage of heating savings attributed to natural gas (%FossilHeat) from the ex-ante Unknown heating fuel (97%) to the Natural Gas heating fuel (100%), consistent with the program utility. These adjustments resulted in a measure-level realization rate of 109%.

**Recommendation 2.** Utilize collected program data to select a specific Climate Zone for the Gas Heating Consumption variable.Utilize a factor of 100% Fossil Heat for natural gas programs, consistent with the IL TRM v12.0.

**Finding 3.** The program data did not report pipe sizes for Pipe Insulation and Steam Fitting Insulation measures. The verification and quantification of savings are determined by the pipe size and system configuration. The evaluation team leveraged ex ante savings to reverse calculate appropriate pipe sizes and confirmed the deemed savings for each size from IL-TRM v12.0.

**Recommendation 3.** Ensure all variables necessary for pipe insulation algorithm inputs are reported in the program tracking data.

##### 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 measure workbook 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 the measure workbook or in Guidehouse’s calculations if the workbook did not agree with the IL-TRM v12.0.
* 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 postal codes, the evaluation team utilized a NTG ratio of 1.0.
* Guidehouse sourced methodologies and assumptions from the IL-TRM v12.0 and the final 2024 tracking data.

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

Table B‑1 and Table B‑2 show the Total Resource Cost (TRC) cost-effectiveness analysis inputs available at the time of producing this impact evaluation report. Currently, 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 – PGL

| Program Path | Savings Category | DAC Project | Units | Quantity | Effective Useful Life | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Partner Trade Ally | Steam Traps | FALSE | Unit | 2,869 | 6.0 | 500,287 | 500,304 | 476,810 |
| Pipe Insulation | FALSE | Ln Ft | 9,102 | 15.0 | 55,326 | 55,326 | 52,728 |
| Boiler Tune Up | FALSE | MBH | 114,120 | 3.0 | 53,494 | 53,494 | 50,982 |
| On Demand DHW Control | FALSE | Unit | 586 | 15.0 | 36,742 | 36,742 | 35,017 |
| Steam Pipe Averaging Controls | FALSE | Unit | 577 | 20.0 | 35,248 | 35,248 | 33,593 |
| High Efficiency Boiler | FALSE | MBH | 10 | 25.0 | 16,027 | 16,034 | 15,281 |
| Central Water Heater | FALSE | Unit | 196 | 15.0 | 1,861 | 1,861 | 1,774 |
| Steam Fitting Insulation | FALSE | Unit | 36 | 15.0 | 987 | 987 | 941 |
| Draft Controls | FALSE | MBH | 3,736 | 15.0 | 621 | 621 | 591 |
| DHW Tank Insulation | FALSE | Sq Ft | 69 | 15.0 | 382 | 382 | 364 |
| Air Sealing | FALSE | CFM | 3,964 | 20.0 | 305 | 305 | 290 |
| Attic Insulation | FALSE | Sq Ft | 966 | 30.0 | 135 | 135 | 129 |
| Duct Sealing | FALSE | CFM | 33 | 20.0 | 22 | 22 | 21 |
|  | Steam Traps - DAC | TRUE | Unit | 503 | 6.0 | 91,007 | 91,010 | 91,010 |
|  | Pipe Insulation - DAC | TRUE | Ln Ft | 1,959 | 15.0 | 11,552 | 11,552 | 11,552 |
|  | Boiler Tune Up - DAC | TRUE | MBH | 1,260 | 3.0 | 591 | 591 | 591 |
| Prescriptive | Pipe Insulation (CA) | FALSE | Ln Ft | 540 | 15.0 | 16,408 | 16,408 | 15,459 |
| Linkageless Controls | FALSE | MBH | 20,000 | 20.0 | 12,624 | 12,624 | 11,894 |
| Boiler Tune Up | FALSE | MBH | 25,006 | 3.0 | 11,722 | 11,722 | 11,044 |
| Steam Traps | FALSE | Unit | 74 | 6.0 | 3,615 | 3,615 | 3,406 |
| Draft Controls | FALSE | MBH | 20,000 | 15.0 | 3,322 | 3,322 | 3,130 |
| High Efficiency Furnace (IU) | FALSE | Unit | 3 | 20.0 | 378 | 378 | 356 |
| High Efficiency Boiler | FALSE | MBH | 2 | 25.0 | 327 | 328 | 309 |
| Attic Air Sealing | FALSE | Ln Ft | 2,400 | 30.0 | 196 | 196 | 185 |
| Attic Insulation | FALSE | Sq Ft | 1,520 | 30.0 | 95 | 95 | 89 |
| Advanced Thermostat (IU) | FALSE | Unit | 1 | 11.0 | 67 | 67 | 63 |
| Steam Pipe Averaging Controls - DAC | TRUE | Unit | 12 | 20.0 | 733 | 733 | 733 |
| High Efficiency Boiler - DAC | TRUE | MBH | 1 | 25.0 | 146 | 146 | 146 |
| Programmable Thermostat (IU) - DAC | TRUE | Unit | 1 | 16.0 | 37 | 41 | 41 |
| **Total or Weighted Average** | |  |  |  | **8.3** | **854,255** | **854,285** | **818,527** |

Source: Evaluation team analysis.

Table B‑2. Verified Cost Effectiveness Inputs – NSG

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Program Path | Savings Category | DAC Project | Units | Quantity | Effective Useful Life | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| Partner Trade Ally | Pipe Insulation | FALSE | Ln Ft | 331 | 15.0 | 1,328 | 1,328 | 1,266 |
| Pipe Insulation - DAC | TRUE | Ln Ft | 97 | 15.0 | 1,851 | 1,851 | 1,851 |
| Steam Fitting Insulation - DAC | TRUE | Unit | 5 | 15.0 | 101 | 101 | 101 |
| DHW Tune Up - DAC | TRUE | Unit | 18 | 3.0 | 51 | 51 | 51 |
| Prescriptive | High Efficiency Furnace (IU) | FALSE | Unit | 2 | 20.0 | 252 | 252 | 237 |
| **Total or Weighted Average** | |  |  |  | **15.2** | **3,582** | **3,582** | **3,505** |

Source: Evaluation team analysis.