

# Home Energy Jumpstart Impact Evaluation Report

Energy Efficiency Plan: Program Year 2025

(01/01/2025-12/31/2025)

**Prepared for:**

**Peoples Gas and North Shore Gas**

PEOPLES GAS® | NORTH SHORE GAS®

**Final**

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# 1 Introduction

This report presents the results of the impact evaluation of the Peoples Gas (PGL) and North Shore Gas (NSG) 2025 Home Energy Jumpstart (HEJ) 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 and the cost effectiveness analysis inputs. Program year 2025 covers January 1 to December 31, 2025.

# 2 Program Description

The 2025 HEJ program is a single-family assessment and direct install program jointly implemented by ComEd, Nicor Gas, PGL, and NSG. This report focuses solely on the program's natural gas savings. Electricity savings are included in a separate evaluation report delivered to ComEd.

The 2025 program consisted of two paths, Direct Install and Virtual (Self) Home Assessment (VHA) where a customer completes an online survey and has a kit of products shipped to their home at no cost for self-installation. Measures included low flow showerheads, kitchen and bathroom faucet aerators, programmable thermostats, smart thermostats, and pipe insulation at eligible single-family residences, including condominiums. The program provides recommendations for incentives for efficient measures and other available efficiency programs offered by ComEd, Nicor Gas, PGL, and NSG.

The program had 641 PGL participants in 2025 and completed 2,734 projects, as shown in Table 1.

**Table 1. 2025 Volumetric Summary for PGL**

| Participation             | Direct Install | Virtual Home Assessment (VHA) | Total |
|---------------------------|----------------|-------------------------------|-------|
| Participants *            | 480            | 623                           | 641   |
| Installed Projects †      | 508            | 2,226                         | 2,734 |
| Measure Types Installed ‡ | 3              | 5                             | 7     |

\* Participants are defined as the number of distinct account numbers with realized gas savings.

† Installed Projects represent the unique count of work orders completed.

‡ Measure Types Installed are defined as the number of distinct TRM measures with realized gas savings

Source: Peoples Gas tracking data and evaluation team analysis.

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

**Table 2. 2025 Installed Measure Quantities for PGL**

| Program Path                  | Measure                  | Quantity Unit | Installed Quantity |
|-------------------------------|--------------------------|---------------|--------------------|
| Direct Install                | Advanced Thermostat      | Unit          | 45                 |
|                               | Boiler Pipe Insulation   | Linear Feet   | 219                |
|                               | DHW Pipe Insulation      | Linear Feet   | 1,230              |
| Virtual Home Assessment (VHA) | Advanced Thermostat      | Unit          | 55                 |
|                               | Air Sealing              | Unit          | 896                |
|                               | Low Flow Faucet Aerators | Unit          | 1,273              |
|                               | Low Flow Showerheads     | Unit          | 868                |

| Program Path | Measure                 | Quantity Unit | Installed Quantity |
|--------------|-------------------------|---------------|--------------------|
|              | Programmable Thermostat | Unit          | 167                |

Source: Peoples Gas tracking data and evaluation team analysis.

The NSG program had 172 participants in 2025 and completed 714 projects as shown in Table 3.

**Table 3. 2025 Volumetric Summary for NSG**

| Participation             | Direct Install Virtual Home Assessment (VHA) |     | Total |
|---------------------------|----------------------------------------------|-----|-------|
| Participants *            | 146                                          | 167 | 172   |
| Installed Projects †      | 152                                          | 562 | 714   |
| Measure Types Installed ‡ | 3                                            | 5   | 7     |

\* Participants are defined as the number of distinct account numbers with realized gas savings.

† Installed Projects represent the unique count of work orders completed.

‡ Measure Types Installed are defined as the number of distinct TRM measures with realized gas savings

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. 2025 Installed Measure Quantities for NSG**

| Program Path                  | Measure                 | Quantity Unit | Installed Quantity |
|-------------------------------|-------------------------|---------------|--------------------|
| Direct Install                | Advanced Thermostat     | Unit          | 12                 |
|                               | Boiler Pipe Insulation  | Linear Feet   | 24                 |
|                               | DHW Pipe Insulation     | Linear Feet   | 414                |
| Virtual Home Assessment (VHA) | Advanced Thermostat     | Unit          | 11                 |
|                               | Air Sealing             | Unit          | 249                |
|                               | Low Flow Faucet Aerator | Unit          | 371                |
|                               | Low Flow Showerhead     | Unit          | 256                |
|                               | Programmable Thermostat | Unit          | 22                 |

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

## 3 Program Savings Detail

Table 5 summarizes the energy savings the PGL Home Energy Jumpstart Program achieved by path in 2025.

**Table 5. 2025 Annual Energy Savings Summary for PGL**

| Program Category                    | Program Path            | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO‡ | Verified Net Savings (Therms) |
|-------------------------------------|-------------------------|--------------------------------|--------------------|---------------------------------|------|-------|-------------------------------|
| Non-Disadvantaged Communities (DAC) | Direct Install          | 4,234                          | 100%               | 4,234                           | 0.96 | 1.083 | 4,389                         |
|                                     | Virtual Home Assessment | 14,566                         | 100%               | 14,566                          | 1.02 | 1.083 | 16,138                        |
| <b>Non-DAC Subtotal</b>             |                         | <b>18,800</b>                  | <b>100%</b>        | <b>18,800</b>                   |      |       | <b>20,526</b>                 |
| Disadvantaged Communities (DAC)     | Direct Install          | 3,257                          | 100%               | 3,257                           | 1.04 | N/A   | 3,377                         |
|                                     | Virtual Home Assessment | 13,515                         | 100%               | 13,515                          | 1.03 | 1.083 | 14,941                        |

| Program Category    | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO‡ | Verified Net Savings (Therms) |
|---------------------|--------------|--------------------------------|--------------------|---------------------------------|------|-------|-------------------------------|
| <b>DAC Subtotal</b> |              | <b>16,772</b>                  | <b>100%</b>        | <b>16,772</b>                   |      |       | <b>18,318</b>                 |
| <b>Total</b>        |              | <b>35,572</b>                  | <b>100%</b>        | <b>35,572</b>                   |      |       | <b>38,845</b>                 |

Note: Savings and realization rates presented in this table are rounded and may not sum precisely to the total.

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

† The program-level NTG values are calculated as Verified Net/Verified Gross. The program-level analysis typically used measure-level deemed NTG values, which are listed here: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2025>.

‡ The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.083. Based on SAG Policy, if deemed NTG is multiplied by the NPSO and the resulting NTG value is less than 1.00, the evaluation assigned a NTG of 1.00 to projects in DAC zones. If the resulted NTG value is >1.00, the evaluation used the >1.00 value for calculating the net savings impact (NPSO is marked as N/A in this case).

Source: Evaluation team analysis.

Table 6 summarizes the energy savings the NSG Home Energy Jumpstart Program achieved by path in 2025.

**Table 6. 2025 Annual Energy Savings Summary for NSG**

| Program Category              | Program Path            | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO‡ | Verified Net Savings (Therms) |
|-------------------------------|-------------------------|--------------------------------|--------------------|---------------------------------|------|-------|-------------------------------|
| Non-Disadvantaged Communities | Direct Install          | 2,073                          | 100%               | 2,074                           | 0.96 | 1.083 | 2,155                         |
|                               | Virtual Home Assessment | 5,681                          | 100%               | 5,681                           | 1.04 | 1.083 | 6,373                         |
| <b>Non-DAC Subtotal</b>       |                         | <b>7,754</b>                   | <b>100%</b>        | <b>7,754</b>                    |      |       | <b>8,528</b>                  |
| Disadvantaged Communities     | Direct Install          | 138                            | 100%               | 138                             | 1.03 | N/A   | 143                           |
|                               | Virtual Home Assessment | 588                            | 100%               | 588                             | 1.03 | 1.083 | 655                           |
| <b>DAC Subtotal</b>           |                         | <b>726</b>                     | <b>100%</b>        | <b>726</b>                      |      |       | <b>798</b>                    |
| <b>Total</b>                  |                         | <b>8,481</b>                   | <b>100%</b>        | <b>8,481</b>                    |      |       | <b>9,326</b>                  |

Footnotes are defined similarly as found in Table 5.

Source: Evaluation team analysis.

## 4 Program Savings by Measure

The PGL program savings are presented by measure savings category in Table 7, indicating which measures are in the DAC or non-DAC zone. The Programmable Thermostats and Advanced Thermostats contributed the most savings, followed by the Shower Flow Reducer.

**Table 7. 2025 Annual Energy Savings by Measure for PGL**

| Program Category | Program Path            | Savings Category                   | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO‡ | Verified Net Savings (Therms) |
|------------------|-------------------------|------------------------------------|--------------------------------|--------------------|---------------------------------|------|-------|-------------------------------|
| Non-DAC          | Direct Install          | Advanced Thermostat - Manual       | 2,354                          | 100%               | 2,354                           | 0.94 | 1.083 | 2,397                         |
|                  |                         | Advanced Thermostat - Programmable | 428                            | 100%               | 428                             | 0.94 | 1.083 | 436                           |
|                  |                         | Boiler Pipe Insulation             | 48                             | 100%               | 48                              | 0.99 | 1.083 | 51                            |
|                  |                         | DHW Pipe Insulation                | 1,403                          | 100%               | 1,403                           | 0.99 | 1.083 | 1,504                         |
|                  | Virtual Home Assessment | Advanced Thermostat - Manual       | 410                            | 100%               | 410                             | 0.94 | 1.083 | 417                           |
|                  |                         | Advanced Thermostat - Programmable | 2,762                          | 100%               | 2,762                           | 0.94 | 1.083 | 2,812                         |
|                  |                         | Air Sealing - Door Sweep           | 2,463                          | 100%               | 2,463                           | 0.99 | 1.083 | 2,641                         |
|                  |                         | Bathroom Aerator SF                | 417                            | 100%               | 417                             | 1.09 | 1.083 | 492                           |
|                  |                         | Handheld Showerhead SF             | 1,116                          | 100%               | 1,116                           | 1.09 | 1.083 | 1,317                         |
|                  |                         | Kitchen Aerator SF                 | 1,467                          | 100%               | 1,467                           | 1.09 | 1.083 | 1,732                         |
|                  |                         | Programmable Thermostat            | 2,537                          | 100%               | 2,537                           | 0.99 | 1.083 | 2,720                         |
|                  |                         | Shower Flow Reducer SF             | 2,508                          | 100%               | 2,508                           | 1.09 | 1.083 | 2,961                         |
|                  |                         | Showerhead SF                      | 885                            | 100%               | 885                             | 1.09 | 1.083 | 1,045                         |
|                  |                         | <b>Non-DAC subtotal</b>            | <b>18,800</b>                  | <b>100%</b>        | <b>18,800</b>                   |      |       | <b>20,526</b>                 |
| DAC              | Direct Install          | Advanced Thermostat - Manual       | 1,422                          | 100%               | 1,422                           | 1.02 | NA    | 1,447                         |
|                  |                         | Advanced Thermostat - Programmable | 707                            | 100%               | 707                             | 1.02 | NA    | 719                           |
|                  |                         | Boiler Pipe Insulation             | 52                             | 100%               | 52                              | 1.07 | NA    | 56                            |
|                  |                         | DHW Pipe Insulation                | 1,077                          | 100%               | 1,077                           | 1.07 | NA    | 1,154                         |
|                  | Virtual Home Assessment | Advanced Thermostat - Manual       | 205                            | 100%               | 205                             | 1.02 | NA    | 209                           |
|                  |                         | Advanced Thermostat - Programmable | 1,701                          | 100%               | 1,701                           | 1.02 | NA    | 1,732                         |
|                  |                         | Air Sealing - Door Sweep           | 1,987                          | 100%               | 1,987                           | 1.07 | NA    | 2,130                         |
|                  |                         | Bathroom Aerator SF                | 356                            | 100%               | 356                             | 1.09 | 1.083 | 420                           |
|                  |                         | Handheld Showerhead SF             | 1,245                          | 100%               | 1,245                           | 1.09 | 1.083 | 1,470                         |
|                  |                         | Kitchen Aerator SF                 | 1,266                          | 100%               | 1,266                           | 1.09 | 1.083 | 1,495                         |
|                  |                         | Programmable Thermostat            | 4,505                          | 100%               | 4,506                           | 1.07 | NA    | 4,831                         |
|                  |                         | Shower Flow Reducer SF             | 1,789                          | 100%               | 1,789                           | 1.09 | 1.083 | 2,112                         |
|                  |                         | Showerhead SF                      | 461                            | 100%               | 461                             | 1.09 | 1.083 | 544                           |

| Program Category    | Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO‡ | Verified Net Savings (Therms) |
|---------------------|--------------|------------------|--------------------------------|--------------------|---------------------------------|------|-------|-------------------------------|
| <b>DAC subtotal</b> |              |                  | <b>16,772</b>                  | <b>100%</b>        | <b>16,772</b>                   |      |       | <b>18,318</b>                 |
| <b>Total</b>        |              |                  | <b>35,572</b>                  | <b>100%</b>        | <b>35,572</b>                   |      |       | <b>38,845</b>                 |

Note: Savings and realization rates presented in this table are rounded and may not sum precisely to the totals.

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

† The program-level NTG values are calculated as Verified Net/Verified Gross. The program-level analysis typically used measure-level deemed NTG values, which are listed here: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2025>.

‡ The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.083. Based on SAG Policy, if deemed NTG is multiplied by the NPSO and the resulting NTG value is less than 1.00, the evaluation assigned a NTG of 1.00 to projects in DAC zones. If the resulted NTG value is >1.00, the evaluation used the >1.00 value for calculating the net savings impact (NPSO is marked as N/A in this case).

Source: Evaluation team analysis.

The NSG program savings are presented by measure savings category in Table 8, indicating which measures are in the DAC or non-DAC zone. The Advanced Thermostats and Shower Flow Reducer contributed the most savings, followed by the Air Sealing-Door Sweep.

**Table 8. 2025 Annual Energy Savings by Measure for NSG**

| Program Category | Program Path            | Savings Category                   | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO‡ | Verified Net Savings (Therms) |
|------------------|-------------------------|------------------------------------|--------------------------------|--------------------|---------------------------------|------|-------|-------------------------------|
| Non-DAC          | Direct Install          | Advanced Thermostat - Manual       | 1,121                          | 100%               | 1,121                           | 0.94 | 1.083 | 1,141                         |
|                  |                         | Advanced Thermostat - Programmable | 143                            | 100%               | 143                             | 0.94 | 1.083 | 145                           |
|                  |                         | Boiler Pipe Insulation             | 5                              | 100%               | 5                               | 0.99 | 1.083 | 6                             |
|                  |                         | DHW Pipe Insulation                | 804                            | 100%               | 804                             | 0.99 | 1.083 | 862                           |
|                  | Virtual Home Assessment | Advanced Thermostat - Manual       | 103                            | 100%               | 103                             | 0.94 | 1.083 | 104                           |
|                  |                         | Advanced Thermostat - Programmable | 783                            | 100%               | 783                             | 0.94 | 1.083 | 797                           |
|                  |                         | Air Sealing - Door Sweep           | 1,152                          | 100%               | 1,152                           | 0.99 | 1.083 | 1,235                         |
|                  |                         | Bathroom Aerator SF                | 222                            | 100%               | 222                             | 1.09 | 1.083 | 262                           |
|                  |                         | Handheld Showerhead SF             | 489                            | 100%               | 489                             | 1.09 | 1.083 | 577                           |
|                  |                         | Kitchen Aerator SF                 | 625                            | 100%               | 625                             | 1.09 | 1.083 | 738                           |
|                  |                         | Programmable Thermostat            | 592                            | 100%               | 592                             | 0.99 | 1.083 | 635                           |
|                  |                         | Shower Flow Reducer SF             | 1,291                          | 100%               | 1,291                           | 1.09 | 1.083 | 1,524                         |
|                  |                         | Showerhead SF                      | 424                            | 100%               | 424                             | 1.09 | 1.083 | 501                           |
|                  | <b>Non-DAC subtotal</b> |                                    | <b>7,754</b>                   | <b>100%</b>        | <b>7,754</b>                    |      |       | <b>8,528</b>                  |

| Program Category | Program Path            | Savings Category             | Ex Ante Gross Savings (Therms) | Verified Gross RR* | Verified Gross Savings (Therms) | NTG† | NPSO ‡ | Verified Net Savings (Therms) |
|------------------|-------------------------|------------------------------|--------------------------------|--------------------|---------------------------------|------|--------|-------------------------------|
| DAC              | Direct Install          | Advanced Thermostat - Manual | 103                            | 100%               | 103                             | 1.02 | NA     | 104                           |
|                  |                         | Boiler Pipe Insulation       | 5                              | 100%               | 5                               | 1.07 | NA     | 6                             |
|                  |                         | DHW Pipe Insulation          | 30                             | 100%               | 30                              | 1.07 | NA     | 32                            |
|                  | Virtual Home Assessment | Air Sealing - Door Sweep     | 84                             | 100%               | 84                              | 1.07 | NA     | 90                            |
|                  |                         | Bathroom Aerator SF          | 16                             | 100%               | 16                              | 1.09 | 1.083  | 19                            |
|                  |                         | Handheld Showerhead SF       | 28                             | 100%               | 28                              | 1.09 | 1.083  | 33                            |
|                  |                         | Kitchen Aerator SF           | 54                             | 100%               | 54                              | 1.09 | 1.083  | 64                            |
|                  |                         | Programmable Thermostat      | 277                            | 100%               | 277                             | 1.07 | NA     | 297                           |
|                  |                         | Shower Flow Reducer SF       | 92                             | 100%               | 92                              | 1.09 | 1.083  | 109                           |
|                  |                         | Showerhead SF                | 37                             | 100%               | 37                              | 1.09 | 1.083  | 44                            |
|                  | <b>DAC subtotal</b>     |                              | <b>726</b>                     | <b>100%</b>        | <b>726</b>                      |      |        | <b>798</b>                    |
|                  | <b>Total</b>            |                              | <b>8,481</b>                   | <b>100%</b>        | <b>8,481</b>                    |      |        | <b>9,326</b>                  |

Footnotes are defined similarly as found in Table 7.

Source: Evaluation team analysis.

## 5 Impact Analysis Findings and Recommendations

### 5.1 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, including discussion of all measures with realization rates above or below 100%. Appendix A provides a description of the impact analysis methodology.

**Table 9. Verified Gross Savings Parameters**

| Measure Category                   | Unit Basis | Ex Ante Gross (therms/unit) | Verified Gross (therms/unit) | Realization Rate | IL TRM v13.0 Section † |
|------------------------------------|------------|-----------------------------|------------------------------|------------------|------------------------|
| Advanced Thermostat - Manual       | Unit       | 119.04                      | 119.04                       | 100%             | 5.3.16                 |
| Advanced Thermostat - Programmable | Unit       | 85.16                       | 85.16                        | 100%             | 5.3.16                 |
| Advanced Thermostat - Manual       | Unit       | 102.51                      | 102.51                       | 100%             | 5.3.16                 |
| Advanced Thermostat - Programmable | Unit       | 88.91                       | 88.91                        | 100%             | 5.3.16                 |
| Air Sealing - Door Sweep           | Unit       | 4.97                        | 4.97                         | 100%             | 5.6.1                  |

| Measure Category        | Unit Basis  | Ex Ante Gross (therms/unit) | Verified Gross (therms/unit) | Realization Rate | IL TRM v13.0 Section † |
|-------------------------|-------------|-----------------------------|------------------------------|------------------|------------------------|
| Bathroom Aerator SF     | Unit        | 0.84                        | 0.84                         | 100%             | 5.4.4                  |
| Boiler Pipe Insulation  | Linear Feet | 0.46                        | 0.46                         | 100%             | 5.3.2                  |
| DHW Pipe Insulation     | Linear Feet | 2.02                        | 2.02                         | 100%             | 5.4.1                  |
| Handheld Showerhead SF  | Unit        | 9.22                        | 9.22                         | 100%             | 5.4.5                  |
| Kitchen Aerator SF      | Unit        | 7.72                        | 7.72                         | 100%             | 5.4.4                  |
| Programmable Thermostat | Unit        | 41.86                       | 41.86                        | 100%             | 5.3.11                 |
| Shower Flow Reducer SF  | Unit        | 9.22                        | 9.22                         | 100%             | 5.4.5                  |
| Showerhead SF           | Unit        | 9.22                        | 9.22                         | 100%             | 5.4.5                  |

† State of Illinois Technical Reference Manual version 13.0 from <http://www.ilsag.info/technical-reference-manual.html>. Unit savings applies to both PGL and NSG.

Source: Program tracking data and evaluation team analysis.

## 5.2 Findings and Recommendations

**Finding 1.** Guidehouse identified two Air Sealing – Door Sweep (VA) projects for which gas savings were claimed, while the tracking data indicated that the existing heating system was an electric heat pump. Given this heating configuration, the evaluation team determined that gas savings were not applicable and therefore set the verified savings to zero (MEA-2025.03.19-875213, MEA-2025.03.19-874626).

**Recommendation 1.** The evaluation team recommends that tracking data and claimed savings be aligned with customer heating system information, such that gas savings are included only where applicable. This alignment will support accurate and consistent reporting of program impacts.

**Finding 2.** In the program tracking data, measures are mapped to the SAP MR Offering field, and a standalone field identifying program path, such as direct install or virtual home assessment, is not currently available. In the absence of this field, the retrofit name was used to derive program path for evaluation purposes. This approach resulted in some customer accounts being associated with more than one program path, which limited the ability to clearly identify unique participants by delivery channel.

**Recommendation 2.** Guidehouse recommends adding a standalone program path field to the tracking data. Capturing program path information will support clearer differentiation between delivery channels and improve the identification and reporting of unique program participants.

## 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 2025 tracking data for agreement with the IL-TRM v13.0 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 if the Master Measure Database (MMDB workbook) did not agree with the IL-TRM v13.0.
- 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 an NTG ratio. In Program Year 2025, 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.
- The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.083. Based on SAG Policy, if deemed NTG is multiplied by the NPSO and the resulted NTG value is less than 1.00, the evaluation assigned NTG of 1.00 to projects in DAC zones. If the resulted NTG value is >1.00, the evaluation used the >1.00 value for calculation of net savings impact.

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

The Table 10 and Table 11 below show 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 10. Verified Cost Effectiveness Inputs - PGL**

| 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) |
|-------------------------|------------------------------------|-------------|-------------|----------|-----------------------|-------------------------|-----------------------------------------------|--------------------------------|---------------------------------|-------------------------------|
| Direct Install          | Advanced Thermostat - Manual       | FALSE       | Unit        | 22.00    | 11.00                 | NO                      |                                               | 2,354                          | 2,354                           | 2,397                         |
|                         | Advanced Thermostat - Manual       | TRUE        | Unit        | 10.00    | 11.00                 | NO                      |                                               | 1,422                          | 1,422                           | 1,447                         |
|                         | Advanced Thermostat - Programmable | FALSE       | Unit        | 6.00     | 11.00                 | NO                      |                                               | 428                            | 428                             | 436                           |
|                         | Advanced Thermostat - Programmable | TRUE        | Unit        | 7.00     | 11.00                 | NO                      |                                               | 707                            | 707                             | 719                           |
|                         | Boiler Pipe Insulation             | FALSE       | Linear Feet | 105      | 11.00                 | NO                      |                                               | 48.02                          | 48.02                           | 51.48                         |
|                         | Boiler Pipe Insulation             | TRUE        | Linear Feet | 114      | 11.00                 | NO                      |                                               | 52.13                          | 52.13                           | 55.90                         |
|                         | DHW Pipe Insulation                | FALSE       | Linear Feet | 696      | 12.00                 | NO                      |                                               | 1,403                          | 1,403                           | 1,504                         |
|                         | DHW Pipe Insulation                | TRUE        | Linear Feet | 534      | 12.00                 | NO                      |                                               | 1,077                          | 1,077                           | 1,154                         |
| Virtual Home Assessment | Advanced Thermostat - Manual       | FALSE       | Unit        | 4.00     | 11.00                 | NO                      |                                               | 410                            | 410                             | 417                           |
|                         | Advanced Thermostat - Manual       | TRUE        | Unit        | 2.00     | 11.00                 | NO                      |                                               | 205                            | 205                             | 209                           |

| Program Path                     | Savings Category                   | DAC Project | Units | Quantity | Effective Useful Life | EarlyVerified Replacement Flag† | Gross Annual Water Savings (Gallons) | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
|----------------------------------|------------------------------------|-------------|-------|----------|-----------------------|---------------------------------|--------------------------------------|--------------------------------|---------------------------------|-------------------------------|
|                                  | Advanced Thermostat - Programmable | FALSE       | Unit  | 30.00    | 11.00                 | NO                              |                                      | 2,762                          | 2,762                           | 2,812                         |
|                                  | Advanced Thermostat - Programmable | TRUE        | Unit  | 19.00    | 11.00                 | NO                              |                                      | 1,701                          | 1,701                           | 1,732                         |
|                                  | Air Sealing - Door Sweep           | FALSE       | Unit  | 496      | 20.00                 | NO                              |                                      | 2,463                          | 2,463                           | 2,641                         |
|                                  | Air Sealing - Door Sweep           | TRUE        | Unit  | 400      | 20.00                 | NO                              |                                      | 1,987                          | 1,987                           | 2,130                         |
|                                  | Bathroom Aerator SF                | FALSE       | Unit  | 496      | 10.00                 | NO                              | 48,446                               | 417                            | 417                             | 492                           |
|                                  | Bathroom Aerator SF                | TRUE        | Unit  | 423      | 10.00                 | NO                              | 44,021                               | 356                            | 356                             | 420                           |
|                                  | Handheld Showerhead SF             | FALSE       | Unit  | 121      | 10.00                 | NO                              | 206,635                              | 1,116                          | 1,116                           | 1,317                         |
|                                  | Handheld Showerhead SF             | TRUE        | Unit  | 135      | 10.00                 | NO                              | 230,543                              | 1,245                          | 1,245                           | 1,470                         |
|                                  | Kitchen Aerator SF                 | FALSE       | Unit  | 190      | 10.00                 | NO                              | 326,031                              | 1,467                          | 1,467                           | 1,732                         |
|                                  | Kitchen Aerator SF                 | TRUE        | Unit  | 164      | 10.00                 | NO                              | 281,416                              | 1,266                          | 1,266                           | 1,495                         |
|                                  | Programmable Thermostat            | FALSE       | Unit  | 64.00    | 16.00                 | NO                              |                                      | 2,537                          | 2,537                           | 2,720                         |
|                                  | Programmable Thermostat            | TRUE        | Unit  | 103      | 16.00                 | NO                              |                                      | 4,505                          | 4,506                           | 4,831                         |
|                                  | Shower Flow Reducer SF             | FALSE       | Unit  | 272      | 10.00                 | NO                              | 292,022                              | 2,508                          | 2,508                           | 2,961                         |
|                                  | Shower Flow Reducer SF             | TRUE        | Unit  | 194      | 10.00                 | NO                              | 227,128                              | 1,789                          | 1,789                           | 2,112                         |
|                                  | Showerhead SF                      | FALSE       | Unit  | 96.00    | 10.00                 | NO                              | 163,942                              | 885                            | 885                             | 1,045                         |
|                                  | Showerhead SF                      | TRUE        | Unit  | 50.00    | 10.00                 | NO                              | 85,386                               | 461                            | 461                             | 544                           |
| <b>Total or Weighted Average</b> |                                    |             |       |          | <b>12.86</b>          |                                 | <b>1,905,570</b>                     | <b>35,572</b>                  | <b>35,572</b>                   | <b>38,845</b>                 |

Source: Evaluation team analysis.

**Table 11. Verified Cost Effectiveness Inputs – NSG**

| 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) |
|-------------------------|------------------------------------|-------------|-------------|----------|-----------------------|-------------------------|-----------------------------------------------|--------------------------------|---------------------------------|-------------------------------|
| Direct Install          | Advanced Thermostat - Manual       | FALSE       | Unit        | 9.00     | 11.00                 | NO                      |                                               | 1,121                          | 1,121                           | 1,141                         |
|                         | Advanced Thermostat - Manual       | TRUE        | Unit        | 1.00     | 11.00                 | NO                      |                                               | 103                            | 103                             | 104                           |
|                         | Advanced Thermostat - Programmable | FALSE       | Unit        | 2.00     | 11.00                 | NO                      |                                               | 143                            | 143                             | 145                           |
|                         | Boiler Pipe Insulation             | FALSE       | Linear Feet | 12.00    | 11.00                 | NO                      |                                               | 5.49                           | 5.49                            | 5.88                          |
|                         | Boiler Pipe Insulation             | TRUE        | Linear Feet | 12.00    | 11.00                 | NO                      |                                               | 5.49                           | 5.49                            | 5.88                          |
|                         | DHW Pipe Insulation                | FALSE       | Linear Feet | 399      | 12.00                 | NO                      |                                               | 804                            | 804                             | 862                           |
| Virtual Home Assessment | DHW Pipe Insulation                | TRUE        | Linear Feet | 15.00    | 12.00                 | NO                      |                                               | 30.24                          | 30.24                           | 32.42                         |
|                         | Advanced Thermostat - Manual       | FALSE       | Unit        | 1.00     | 11.00                 | NO                      |                                               | 103                            | 103                             | 104                           |
|                         | Advanced Thermostat - Programmable | FALSE       | Unit        | 10.00    | 11.00                 | NO                      |                                               | 783                            | 783                             | 797                           |
|                         | Air Sealing - Door Sweep           | FALSE       | Unit        | 232      | 20.00                 | NO                      |                                               | 1,152                          | 1,152                           | 1,235                         |
|                         | Air Sealing - Door Sweep           | TRUE        | Unit        | 17.00    | 20.00                 | NO                      |                                               | 84.43                          | 84.43                           | 90.53                         |
|                         | Bathroom Aerator SF                | FALSE       | Unit        | 264      | 10.00                 | NO                      | 21,900                                        | 222                            | 222                             | 262                           |
|                         | Bathroom Aerator SF                | TRUE        | Unit        | 19.00    | 10.00                 | NO                      | 1,770                                         | 15.97                          | 15.97                           | 18.85                         |
|                         | Handheld Showerhead SF             | FALSE       | Unit        | 53.00    | 10.00                 | NO                      | 90,510                                        | 489                            | 489                             | 577                           |
|                         | Handheld Showerhead SF             | TRUE        | Unit        | 3.00     | 10.00                 | NO                      | 5,123                                         | 27.67                          | 27.67                           | 32.66                         |
|                         | Kitchen Aerator SF                 | FALSE       | Unit        | 81.00    | 10.00                 | NO                      | 138,992                                       | 625                            | 625                             | 738                           |

| 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) |
|----------------------------------|-------------------------|-------------|-------|----------|-----------------------|-------------------------|-----------------------------------------------|--------------------------------|---------------------------------|-------------------------------|
|                                  | Kitchen Aerator SF      | TRUE        | Unit  | 7.00     | 10.00                 | NO                      | 12,012                                        | 54.05                          | 54.05                           | 63.81                         |
|                                  | Programmable Thermostat | FALSE       | Unit  | 16.00    | 16.00                 | NO                      |                                               | 592                            | 592                             | 635                           |
|                                  | Programmable Thermostat | TRUE        | Unit  | 6.00     | 16.00                 | NO                      |                                               | 277                            | 277                             | 297                           |
|                                  | Shower Flow Reducer SF  | FALSE       | Unit  | 140      | 10.00                 | NO                      | 138,326                                       | 1,291                          | 1,291                           | 1,524                         |
|                                  | Shower Flow Reducer SF  | TRUE        | Unit  | 10.00    | 10.00                 | NO                      | 8,539                                         | 92.22                          | 92.22                           | 109                           |
|                                  | Showerhead SF           | FALSE       | Unit  | 46.00    | 10.00                 | NO                      | 78,556                                        | 424                            | 424                             | 501                           |
|                                  | Showerhead SF           | TRUE        | Unit  | 4.00     | 10.00                 | NO                      | 6,831                                         | 36.89                          | 36.89                           | 43.54                         |
| <b>Total or Weighted Average</b> |                         |             |       |          | <b>12.54</b>          |                         | <b>502,557</b>                                | <b>8,481</b>                   | <b>8,481</b>                    | <b>9,326</b>                  |

Source: Evaluation team analysis.