|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | |
| Small Business Program Impact Evaluation Report  Energy Efficiency Plan: Program Year 2023  (1/1/2023-12/31/2023) | | | | | | | | |
| Prepared for:  Nicor Gas Company  DRAFT  April 16, 2024 | | | | | | | | |
| Prepared by: | | | | | |  | | |
| Marlon McClinton  Utilivate Technologies | | Walter Roberson  Utilivate Technologies | | |  | | | |
|  |  | | | |  | | | |
|  |  | |  | | | | |  |
| **guidehouse.com** |  | | |  | | |  | |

**Submitted to:**

Nicor Gas Company

1844 Ferry Road

Naperville, IL 60563

**Submitted by:**

Guidehouse

150 N. Riverside Plaza, Suite 2100

Chicago, IL 60606

**Contact:**

|  |  |  |
| --- | --- | --- |
| Ted Walker  Partner  404.602.3463  **ted.walker@guidehouse.com**  Charles Ampong Associate Director  608.446.3172  **charles.ampong@guidehouse.com** | Stu Slote  Director  802.526.5113  **stu.slote@guidehouse.com** | Laura Agapay-Read Associate Director  312.583.4178  **laura.agapay.read@guidehouse.com** |

Disclaimer: This report was prepared by Guidehouse for Nicor Gas based upon information provided by Nicor Gas and from other sources. Use of this report by any other party for whatever purpose should not, and does not, absolve such party from using due diligence in verifying the report’s contents. Neither Guidehouse nor any of its subsidiaries or affiliates assumes any liability or duty of care to such parties, and hereby disclaims any such liability.

Table of Contents

[1. Introduction 1](#_Toc164204476)

[2. Program Description 1](#_Toc164204477)

[3. Program Savings Detail 3](#_Toc164204478)

[4. Program Savings by Measure 4](#_Toc164204479)

[5. Impact Analysis Findings and Recommendations 6](#_Toc164204480)

[5.1 Impact Parameter Estimates 6](#_Toc164204481)

[5.2 Findings and Recommendations 8](#_Toc164204482)

[Appendix A. Program Specific Inputs for the Illinois TRC A-1](#_Toc164204483)

List of Tables, Figures, and Equations

[Table 2‑1. 2023 Volumetric Findings Detail 1](#_Toc164204453)

[Table 2‑2. 2023 Installed Measure Quantities 2](#_Toc164204454)

[Table 3‑1. 2023 Energy Savings Summary 3](#_Toc164204455)

[Table 4‑1. 2023 Annual Energy Savings by Measure 4](#_Toc164204456)

[Table 5‑1. 2023 Verified Gross Savings Parameters 7](#_Toc164204457)

[Table A‑1. Verified Cost Effectiveness Inputs A-1](#_Toc164204458)

# Introduction

This report presents the results of the impact evaluation of the Nicor Gas 2023 Small Business Energy Efficiency Program (SBEEP) and a summary of the energy impacts for the total program, as well as relevant measures and program structure details. The appendices present the impact analysis methodology and Illinois total resource cost (TRC) inputs. Program year 2023 covers January 1, 2023 through December 31, 2023.

# Program Description

The SBEEP program is designed to assist qualified Nicor Gas non-residential customers to achieve natural gas energy savings through installation of direct-install (DI) energy efficiency measures, as well as prescriptive and custom incentives offered for select measures. The program targets both private sector and public sector customers.

The program had 472 participants in 2023 and completed 621 projects as shown in Table 2‑1.

Table 2‑1. 2023 Volumetric Findings Detail

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Participation | Direct Install | Prescriptive | Custom | Total |
| **Private Sector** |  |  |  |  |
| Participants \* | 249 | 218 | **0** | **467** |
| Installed Projects † | 372 | 242 | **0** | **614** |
| Measure Types Installed | 7 | 13 | **0** | **20** |
|  |  |  |  |  |
| **Public Sector** |  |  |  |  |
| Participants \* | 3 | 2 | **0** | **5** |
| Installed Projects † | 3 | 4 | **0** | **7** |
| Measure Types Installed | 1 | 2 | **0** | **3** |
|  |  |  |  |  |
| **Program 2023 Total** |  |  |  |  |
| Participants \* | 252 | 220 | **0** | **472** |
| Installed Projects † | 375 | 246 | **0** | **621** |
| Measure Types Installed | 8 | 15 | **0** | **23** |

\* Participants are defined as unique business names.

† Installed Projects are defined as unique project IDs

Source: Nicor Gas tracking data and Guidehouse evaluation team analysis.

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

Table ‑. 2023 Installed Measure Quantities

| Program Category | Program Path | Measure | Quantity Unit | Installed Quantity |
| --- | --- | --- | --- | --- |
| Private | Direct Install | Commercial Weather Stripping | Each | 6 |
| Private | Direct Install | DHW WH Pipe Wrap - DI | Ln Ft | 23 |
| Private | Direct Install | Faucet Aerators - Bath - DI | Each | 713 |
| Private | Direct Install | Faucet Aerators - Kitchen - DI | Each | 19 |
| Private | Direct Install | Low Flow Shower Heads - DI | Each | 26 |
| Private | Direct Install | Mid Business Assessment | Each | 524 |
| Private | Direct Install | Spray Valve (Med Sized Restaurants)-DI | Each | 41 |
| Private | Direct Install | Spray Valve (Small Restaurants)-DI | Each | 23 |
| Private | Direct Install-DAC | Commercial Weather Stripping | Each | 2 |
| Private | Direct Install-DAC | Faucet Aerators - Bath - DI | Each | 168 |
| Private | Direct Install-DAC | Faucet Aerators - Kitchen - DI | Each | 4 |
| Private | Direct Install-DAC | Spray Valve (Med Sized Restaurants)-DI | Each | 8 |
| Private | Direct Install-DAC | Spray Valve (Small Restaurants)-DI | Each | 8 |
| Private | Prescriptive | Boiler Tune Up, Process | Each | 2 |
| Private | Prescriptive | Boiler Tune Up, Space Heating | Each | 2 |
| Private | Prescriptive | Combination Oven | Each | 1 |
| Private | Prescriptive | Condensing Boilers, >90% | Each | 3 |
| Private | Prescriptive | Convection Oven, E >46% | Each | 1 |
| Private | Prescriptive | Furnace, >92% AFUE | Each | 3 |
| Private | Prescriptive | Furnace, >95% AFUE | Each | 9 |
| Private | Prescriptive | Infrared Charbroiler | Each | 1 |
| Private | Prescriptive | Infrared Heaters | Each | 8 |
| Private | Prescriptive | Pipe Insulation, Indoor HPS Process Heat | Ln Ft | 1 |
| Private | Prescriptive | Small Commercial Thermostat | Each | 3 |
| Private | Prescriptive | Steam Trap, Dry Cleaner | Each | 1308 |
| Private | Prescriptive | Steam Trap, Indust MP 15-30 psig | Each | 25 |
| Private | Prescriptive-DAC | Boiler Tune Up, Space Heating | Each | 1 |
| Private | Prescriptive-DAC | Furnace, >92% AFUE | Each | 1 |
| Private | Prescriptive-DAC | Steam Trap, Dry Cleaner | Each | 145 |
| Public | Direct Install | Faucet Aerators - Bath - DI | Each | 23 |
| Public | Direct Install | Mid Business Assessment | Each | 6 |
| Public | Direct Install | Faucet Aerators - Bath - DI | Each | 4 |
| Public | Prescriptive | Boiler Tune Up, Space Heating | Each | 2 |
| Public | Prescriptive-DAC | Furnace, >95% AFUE | Each | 2 |

Source: Nicor Gas tracking data and Guidehouse evaluation team analysis.

# Program Savings Detail

Table 3‑1 summarizes the energy savings the Small Business Energy Efficiency Program achieved by path in 2023.

Table ‑. 2023 Energy Savings Summary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Program Category | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | Verified Net Savings (Therms) |
| **Private** |  |  |  |  |  |  |
|  | Direct Install | 22,706 | 101% | 22,902 | 0.96 | 21,986 |
|  | Direct Install-DAC | 5,340 | 100% | 5,337 | 1.00 | 5,337 |
|  | Prescriptive | 1,075,884 | 100% | 1,075,920 | All Other  Measures=0.96  Thermostat=0.98 | 1,032,883 |
|  | Prescriptive-DAC | 117,405 | 103% | 117,586 | 1.00 | 117,586 |
| ***Private Subtotal*** |  | **1,221,335** | **100%** | **1,221,745** |  | **1,177,792** |
| **Public** |  |  |  |  |  |  |
|  | Direct Install | 156 | 100% | 156 | 0.96 | 149 |
|  | Direct Install-DAC | 14 | 100% | 14 | 1.00 | 14 |
|  | Prescriptive | 4,691 | 117% | 5,447 | 0.96 | 5,229 |
|  | Prescriptive-DAC | 498 | 95% | 476 | 1.00 | 476 |
| ***Public Subtotal*** |  | **5,359** | **100%** | **6,092** |  | **5,868** |
| **Total or Weighted Average** | | **1,226,694** | **100%** | **1,227,837** |  | **1,183,660** |

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

† A deemed value. Available on the SAG web site: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/>. The DAC designated sites were based on census track and used a NTG of 1.0.

Source: Guidehouse evaluation team analysis.

# Program Savings by Measure

The SBEEP program includes 32 measures as shown in Table 4‑1. The condensing boilers and stream trap prescriptive measures contributed the most savings.

Table ‑. 2023 Annual Energy Savings by Measure

| Program Category | Program Path | Savings Category | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | Verified  Net  Savings (Therms) | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Private | Direct Install | Commercial Weather Stripping | 62 | 93% | 58 | 0.96 | | 55 |
|  | Direct Install | DHW WH Pipe Wrap - DI | 27 | 92% | 24 | 0.96 | | 23 |
|  | Direct Install | Faucet Aerators - Bath - DI | 7,531 | 100% | 7,531 | 0.96 | | 7,229 |
|  | Direct Install | Faucet Aerators - Kitchen - DI | 260 | 100% | 260 | 0.96 | | 250 |
|  | Direct Install | Low Flow Shower Heads - DI | 344 | 159% | 546 | 0.96 | | 525 |
|  | Direct Install | Spray Valve (Med Sized Restaurants)-DI | 9,338 | 100% | 9,338 | 0.96 | | 8,965 |
|  | Direct Install | Spray Valve (Small Restaurants)-DI | 5,144 | 100% | 5,144 | 0.96 | | 4,938 |
|  | Direct Install-DAC | Commercial Weather Stripping | 21 | 87% | 18 | 1.00 | | 18 |
|  | Direct Install-DAC | Faucet Aerators - Bath - DI | 1,481 | 100% | 1,481 | 1.00 | | 1,480 |
|  | Direct Install-DAC | Faucet Aerators - Kitchen - DI | 40 | 100% | 40 | 1.00 | | 40 |
|  | Direct Install-DAC | Spray Valve (Med Sized Restaurants)-DI | 1,899 | 100% | 1,899 | 1.00 | | 1,899 |
|  | Direct Install-DAC | Spray Valve (Small Restaurants)-DI | 1,899 | 100% | 1,899 | 1.00 | | 1,899 |
|  | Prescriptive | Boiler Tune Up, Process | 1,036 | 62% | 632 | 0.96 | | 607 |
|  | Prescriptive | Boiler Tune Up, Space Heating | 3,138 | 129% | 3,158 | 0.96 | | 3,032 |
|  | Prescriptive | Combination Oven | 505 | 105% | 531 | 0.96 | | 510 |
|  | Prescriptive | Condensing Boilers, >90% | 10,599 | 106% | 11,258 | 0.96 | | 10,808 |
|  | Prescriptive | Convection Oven, E >46% | 190 | 99% | 188 | 0.96 | | 181 |
|  | Prescriptive | Furnace, >92% AFUE | 1,066 | 109% | 1,164 | 0.96 | | 1,118 |
|  | Prescriptive | Furnace, >95% AFUE | 3,134 | 101% | 3,053 | 0.96 | | 2,931 |
|  | Prescriptive | Infrared Charbroiler | 707 | 100% | 707 | 0.96 | | 678 |
|  | Prescriptive | Infrared Heaters | 2,197 | 100% | 2,197 | 0.96 | | 2,109 |
|  | Prescriptive | Pipe Insulation, Indoor HPS Process Heat | 2,633 | 100% | 2,633 | 0.96 | | 2,527 |
|  | Prescriptive | Small Commercial Thermostat | 652 | 80% | 522 | 0.96 | | 501 |
|  | Prescriptive | Steam Trap, Dry Cleaner | 1,043,157 | 100% | 1,043,006 | 0.96 | | 1,001,286 |
|  | Prescriptive | Steam Trap, Indust MP 15-30 psig | 6,871 | 100% | 6,871 | 0.96 | | 6,596 |
|  | Prescriptive-DAC | Boiler Tune Up, Space Heating | 1,582 | 105% | 1,661 | 1.00 | | 1,661 |
|  | Prescriptive-DAC | Furnace, >92% AFUE | 152 | 167% | 254 | 1.00 | | 254 |
|  | Prescriptive-DAC | Steam Trap, Dry Cleaner | 115,672 | 100% | 115,671 | 1.00 | | 115,671 |
| ***Private Subtotal*** |  |  | ***1,221,335*** | ***100%*** | ***1,221,745*** |  | | ***1,177,792*** |
| Public | Direct Install | Faucet Aerators - Bath - DI | 156 | 100% | 156 | 0.96 | | 149 |
|  | Direct Install-DAC | Faucet Aerators - Bath - DI | 14 | 100% | 14 | 1.00 | | 14 |
|  | Prescriptive | Boiler Tune Up, Space Heating | 4,691 | 117% | 5,447 | 0.96 | | 5,229 |
|  | Prescriptive-DAC | Furnace, >95% AFUE | 498 | 95% | 476 | 1.00 | | 476 |
| ***Public Subtotal*** | |  | ***5,359*** | ***114%*** | ***6,092*** |  | | ***5,868*** |
| **Total or Weighted Average** | |  | **1,226,694** | **100%** | **1,227,837** |  | **1,183,660** | |

\* Realization Rate (RR) is the ratio of verified gross savings to ex ante gross savings, based on evaluation research findings.  
\*\* Note that data for the Mid-Business assessment was omitted since this measure was not responsible for any therm savings.

† A deemed value. Available on the SAG web site: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/>. The DAC designated sites were based on census track and used a NTG of 1.0.

*Source: Nicor Gas tracking data and Guidehouse evaluation team analysis.*

# Impact Analysis Findings and Recommendations

## Impact Parameter Estimates

Table 5‑1 shows the unit therm savings and realization rate findings by measure from the evaluation team’s review. The realization rate is the ratio of the verified savings to the ex ante savings. Following Table 5‑ are findings and recommendations, including discussion of all measures with realization rates more or less than 100%. Appendix A provides a description of the impact analysis methodology.

Table ‑. 2023 Verified Gross Savings Parameters

| Measure |  | Ex Ante Gross (therms/Unit) | Verified Gross (therms/Unit) | Realization Rate | Data Source(s) |
| --- | --- | --- | --- | --- | --- |
| Boiler Tune Up, Process | Each | 518.12 | 316.20 | 61% | IL TRM v11, Section 4.4.3 |
| Boiler Tune Up, Space Heating | Each | 1,882.21 | 2,053.16 | 109% | IL TRM v11, Section 4.4.2 |
| Combination Oven | Each | 504.64 | 531.32 | 105% | IL TRM v11, Section 4.2.1 |
| Commercial Weather Stripping | Each | 10.32 | 9.45 | 92% | IL TRM v11, Section 4.8.16 |
| Condensing Boilers, >90% | Each | 3,533.09 | 3,752.70 | 106% | IL TRM v11, Section 4.4.10 |
| Convection Oven, E >46% | Each | 189.80 | 188.11 | 99% | IL TRM v11, Section 4.2.5 |
| DHW WH Pipe Wrap - DI | Ln Ft | 1.16 | 1.06 | 92% | IL TRM v11, Section 4.4.24 |
| Faucet Aerators - Bath - DI | Each | 10.11 | 10.11 | 100% | IL TRM v11, Section 4.3.2 |
| Faucet Aerators - Kitchen - DI | Each | 13.06 | 13.06 | 100% | IL TRM v11, Section 4.3.2 |
| Furnace, >92% AFUE | Each | 304.59 | 354.65 | 116% | IL TRM v11, Section 4.4.11 |
| Furnace, >95% AFUE | Each | 330.19 | 320.83 | 97% | IL TRM v11, Section 4.4.11 |
| Infrared Charbroiler | Each | 706.68 | 706.68 | 100% | IL TRM v11, Section 4.2.12 |
| Infrared Heaters | Each | 274.60 | 274.60 | 100% | IL TRM v11, Section 4.4.12 |
| Low Flow Shower Heads - DI | Each | 13.23 | 21.01 | 159% | IL TRM v11, Section 4.3.3 |
| Pipe Insulation, Indoor HPS Process Heat | Ln Ft | 2,632.75 | 2,632.75 | 100% | IL TRM v11, Section 4.4.14 |
| Small Commercial Thermostat | Each | 217.44 | 173.95 | 80% | IL TRM v11, Section 4.8.48 |
| Spray Valve (Med Sized Restaurants)-DI | Each | 229.34 | 229.34 | 100% | IL TRM v11, Section 4.2.11 |
| Spray Valve (Small Restaurants)-DI | Each | 227.20 | 227.20 | 100% | IL TRM v11, Section 4.2.11 |
| Steam Trap, Dry Cleaner | Each | 797.54 | 797.44 | 100% | IL TRM v11, Section 4.4.16 |
| Steam Trap, Indust MP 15-30 psig | Each | 274.83 | 274.83 | 100% | IL TRM v11, Section 4.4.16 |

\* Program Tracking Data (PTD) provided by Nicor Gas, extract dated January 30, 2024.  
\*\* Note that data for the Mid-Business assessment was omitted since this measure was not responsible for any therm savings.

† State of Illinois Technical Reference Manual version 11.0 from <http://www.ilsag.info/technical-reference-manual.html>.

## Findings and Recommendations

**Finding 1.** The verified gross realization rate (RR) for high-efficiency furnaces with >92% AFUE was 116%. The Guidehouse team followed the IL TRM v11 energy savings algorithm using default values and, where available, implementor tracker data. The tracking data inputs for this case resulted in 354.7 therm/unit savings compared to the ex ante value of 304.6 therm/unit.

The verified gross realization rate (RR) for high-efficiency furnaces with >95% AFUE was 97%. In the tracking database, projects EA-0002425286 and EA-0002732972 incorrectly listed the capacity of the new equipment as 88,000 Btu. Based on product technical specifications, the evaluation team used 66,000 Btu capacity for both products. The post equipment efficiency for project EA-0002616339 was incorrectly listed as 96% in the tracking data, but evaluation changed that to 95%, based on product specifications. For project PRJ-3266328, the capacity of the new equipment was incorrectly listed as 95,000 Btu and equipment efficiency as 95%. Based on product technical specifications, the evaluation changed the capacity and equipment efficiency values to 100,000 Btu and 96%, respectively.

**Recommendation 1.** The program should revisit and document the calculation methodology for direct high-efficiency furnaces. Ensure that product technical specifications are correctly sourced and applied and that savings input in the tracking data adequately reflect the claimed savings calculation.

**Finding 2.** The RR for direct install DHW WH Pipe Wrap is 92%. The evaluation team followed the IL TRM v11 energy savings algorithm using default values and inputs from the program tracking data. There were five DHW WH Pipe Wrap projects, four had a 100% RR, but project EA-0002601892 had a RR of 59%.

**Recommendation 2.** Review all inputs in program tracking data and using the TRM, ensure that they are adequately applied to ex ante savings calculations for DHW pipe insulation measures.

**Finding 3.** The overall verified gross RR for condensing boilers >90% is 106%. Three measures were installed from projects EA-0002778437 and EA-0002753930. Evaluation used the appropriate IL TRM v11 energy savings algorithm default values and the inputs provided in the program tracking to calculate a RR value of 106% for all the projects.

**Recommendation 3.** Ensure the inputs provided in the tracking data are applied correctly to ex ante savings calculations for condensing boiler measures.

**Finding 4.** The verified gross realization rate (RR) for commercial weather stripping is 92%. There were six commercial weather-stripping projects, five had 100% RR, but project EA-0002572157 had a RR of 88%. In this case, the city of Bloomington was incorrectly located in Cook County and identified as Climate Zone 2 directly impacting the door sweep per linear foot annual therm savings value. Based on IL TRM v11 and other sources, Bloomington was determined to be in McLean County and located in Climate Zone 3. Also, the annual therm savings from installation of door sweep per linear foot was changed from 3.44 therms to 3.03 therms.

**Recommendation 4.** Ensure the IL TRM default values are correctly applied to ex ante savings calculations for commercial weather-stripping measures.

**Finding 5.** The verified gross RR for Small Commercial Thermostats is 80%. The Guidehouse team followed the IL TRM v11 energy savings algorithm using default values, and inputs provided in the program tracker data. There were three Small Commercial Thermostat projects, all had 80% RR.

**Recommendation 5.** Ensure the IL TRM default values are correctly applied to ex ante savings calculations for Small Commercial Thermostat measures.

**Finding 6.** The verified gross realization rate (RR) for Combination Ovens is 105%. The Guidehouse team followed the IL TRM v11 energy savings algorithm using default values, and inputs from the program tracking data. There was one Combination Oven project. The verified therm calculation is highly dependent on specific project data, such as baseline and efficient case data efficiency and preheat data. The Guidehouse team noted some wide differences in the reported data, such as the baseline preheats per day listed as 0.57, while the energy star preheats per day was listed as 105.0.

**Recommendation 6.** Ensure the IL TRM default values are correctly applied to ex ante savings calculations for Combination Oven measures.

##### Program Specific Inputs for the Illinois TRC

Table A‑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 Table A‑1 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 A‑. Verified Cost Effectiveness Inputs

| Program Category | Program Path | Savings Category | Unit | Quantity | Effective Useful Life | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Private | Direct Install | Commercial Weather Stripping | Each | 6 | 10 | 62 | 58 | 55 |
|  | Direct Install | DHW WH Pipe Wrap - DI | Ln Ft | 23 | 15 | 27 | 24 | 23 |
|  | Direct Install | Faucet Aerators - Bath - DI | Each | 713 | 10 | 7,531 | 7,531 | 7,229 |
|  | Direct Install | Faucet Aerators - Kitchen - DI | Each | 19 | 10 | 260 | 260 | 250 |
|  | Direct Install | Low Flow Shower Heads - DI | Each | 26 | 10 | 344 | 546 | 525 |
|  | Direct Install | Spray Valve (Med Sized Restaurants)-DI | Each | 41 | 5 | 9,338 | 9,338 | 8,965 |
|  | Direct Install | Spray Valve (Small Restaurants)-DI | Each | 23 | 5 | 5,144 | 5,144 | 4,938 |
|  | Direct Install-DAC | Commercial Weather Stripping | Each | 2 | 10 | 21 | 18 | 18 |
|  | Direct Install-DAC | Faucet Aerators - Bath - DI | Each | 168 | 10 | 1,481 | 1,481 | 1,480 |
|  | Direct Install-DAC | Faucet Aerators - Kitchen - DI | Each | 4 | 10 | 40 | 40 | 40 |
|  | Direct Install-DAC | Spray Valve (Med Sized Restaurants)-DI | Each | 8 | 5 | 1,899 | 1,899 | 1,899 |
|  | Direct Install-DAC | Spray Valve (Small Restaurants)-DI | Each | 8 | 5 | 1,899 | 1,899 | 1,899 |
|  | Prescriptive | Boiler Tune Up, Process | Each | 2 | 2 | 1,036 | 632 | 607 |
|  | Prescriptive | Boiler Tune Up, Space Heating | Each | 2 | 3 | 3,138 | 3,158 | 3,032 |
|  | Prescriptive | Combination Oven | Each | 1 | 12 | 505 | 531 | 510 |
|  | Prescriptive | Condensing Boilers, >90% | Each | 3 | 12 | 10,599 | 11,258 | 10,808 |
|  | Prescriptive | Convection Oven, E >46% | Each | 1 | 12 | 190 | 188 | 181 |
|  | Prescriptive | Furnace, >92% AFUE | Each | 3 | 16.5 | 1,066 | 1,164 | 1,118 |
|  | Prescriptive | Furnace, >95% AFUE | Each | 9 | 16.5 | 3,134 | 3,053 | 2,931 |
|  | Prescriptive | Infrared Charbroiler | Each | 1 | 12 | 707 | 707 | 678 |
|  | Prescriptive | Infrared Heaters | Each | 8 | 15 | 2,197 | 2,197 | 2,109 |
|  | Prescriptive | Pipe Insulation, Indoor HPS Process Heat | Ln Ft | 1 | 15 | 2,633 | 2,633 | 2,527 |
|  | Prescriptive | Small Commercial Thermostat | Each | 3 | 11 | 652 | 522 | 501 |
|  | Prescriptive | Steam Trap, Dry Cleaner | Each | 1,308 | 6 | 1,043,157 | 1,043,006 | 1,001,286 |
|  | Prescriptive | Steam Trap, Indust MP 15-30 psig | Each | 25 | 6 | 6,871 | 6,871 | 6,596 |
|  | Prescriptive-DAC | Boiler Tune Up, Space Heating | Each | 1 | 3 | 1,582 | 1,661 | 1,661 |
|  | Prescriptive-DAC | Furnace, >92% AFUE | Each | 1 | 16.5 | 152 | 254 | 254 |
|  | Prescriptive-DAC | Steam Trap, Dry Cleaner | Each | 145 | 6 | 115,672 | 115,671 | 115,671 |
| Public | Direct Install | Faucet Aerators - Bath - DI | Each | 23 | 10 | 156 | 156 | 149 |
|  | Direct Install-DAC | Faucet Aerators - Bath - DI | Each | 4 | 10 | 14 | 14 | 14 |
|  | Prescriptive | Boiler Tune Up, Space Heating | Each | 2 | 3 | 4,691 | 5,447 | 5,229 |
|  | Prescriptive-DAC | Furnace, >95% AFUE | Each | 2 | 16.5 | 498 | 476 | 476 |
| **Total or Weighted Average** | | |  |  | **7.64** | **1,226,694** | **1,227,837** | **1,183,660** |

*Source: Nicor Gas tracking data and Guidehouse evaluation team analysis.*