



Multi-Family Market Rate Program Impact Evaluation Report

Energy Efficiency Plan: Program Year 2023
(1/1/2023-12/31/2023)

Prepared for:

Nicor Gas Company

FINAL

June 4, 2024

Prepared by:

Kyle McKenna
EcoMetric Consulting

Swapnil Lotake
EcoMetric Consulting

Mike Frischmann
EcoMetric Consulting

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

Stu Slote
Director
802.526.5113
stu.slote@guidehouse.com

Laura Agapay-Read
Associate Director
312.583.4178
laura.agapay.read@guidehouse.com

Charles Ampong
Associate Director
608.446.3172
charles.ampong@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
2. Program Description	1
3. Program Savings Detail	3
4. Program Savings by Measure	4
5. Impact Analysis Findings and Recommendations	6
5.1 Impact Parameter Estimates	6
5.2 Findings and Recommendations	8
Appendix A. Impact Analysis Methodology	A-1
Appendix B. Program Specific Inputs for the Illinois TRC	B-1

List of Tables, Figures, and Equations

Table 2-1. 2023 Multi-Family Market Rate Program Volumetric Findings Detail	1
Table 2-2. 2023 Multi-Family Market Rate Program Installed Measure Quantities	2
Table 3-1. 2023 Multi-Family Market Rate Program Annual Energy Savings Summary	3
Table 4-1. 2023 Multi-Family Market Rate Program Annual Energy Savings by Measure	4
Table 5-1. 2023 Multi-Family Market Rate Program Verified Gross Savings Parameters	7
Table B-1. 2023 Multi-Family Market Rate Program Verified Cost Effectiveness Inputs	B-1

1. Introduction

This report presents the results of the impact evaluation of the Nicor Gas 2023 Multi-Family Market Rate Program and a summary of the energy impacts for the total program, as well as relevant measure and program structure details. The appendix presents the impact analysis methodology. Program year 2023 covers January 1, 2023 through December 31, 2023.

2. Program Description

The Multi-Family Program is delivered through four paths:

- The **Direct Installation (DI) path** is offered jointly with ComEd and provides free assessment and no-cost direct installation (DI) in-unit (IU) of measures in residential multi-family buildings with three or more living units.
- The **Prescriptive path** offers incentives to multi-family decision-makers to install energy saving measures in common areas (CA) of multi-family buildings.
- The **Centralized Plant Optimization Program (CPOP)** path where program-approved contractors provide free central plant upgrades, including boiler tune-ups, boiler controls, pipe and tank insulation, and steam trap testing and repair.
- The **Air Sealing and Insulation (ASI) path** focuses on weatherization and shell measures, such as attic insulation and air sealing, to improve comfort and reduce overall heating loads.

The program had 169 participants in 2023 and completed 861 projects, as shown in Table 2-1.

Table 2-1. 2023 Volumetric Findings Detail

Participation	ASI	CPOP	Direct Install	Prescriptive	Total
Participants *	4	77	13	75	169
Installed Projects †	26	88	641	106	861
Measure Types Installed	3	12	12	12	39

* Participants are defined as unique Building Account Numbers.

† Installed Projects are defined as unique Vendor 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 2-2. 2023 Installed Measure Quantities

Program Category	Program Path	Measure	Quantity Unit	Installed Quantity	
Multi-Family Market Rate	CPOP	Pipe Insulation	Ln Ft	24,336	
		DHW Tank Insulation	SQ FT	1,644	
		Assessment/No Savings	Unit	558	
		DHW Controller	Unit	489	
		Steam Trap	Unit	247	
		Boiler Tune Up	Unit	106	
		Steam Boiler Averaging Controls	Unit	4	
		Boiler Reset Controls	Unit	2	
		Boiler Linkageless Controls	Unit	1	
		Pipe Insulation - DAC	Ln Ft	1,000	
		DHW Controller - DAC	Unit	903	
		Boiler Tune Up - DAC	Unit	1	
		Pipe Insulation	Ln Ft	13,037	
		Pool Covers	SQ FT	5,387	
	Prescriptive	Boiler Tune Up	Each	22	
		High Efficiency Boiler	Each	12	
		High Efficiency Furnace (IU)	Each	5	
		High Efficiency Furnace (CA)	Each	2	
		Storage Water Heater	Each	2	
		Pipe Insulation - DAC	Ln Ft	4,022	
		Boiler Reset Controls - DAC	Each	1,401	
		High Efficiency Boiler - DAC	Each	3	
		Boiler Tune Up - DAC	Each	1	
		High Efficiency Furnace (IU) - DAC	Each	1	
		Direct Install	Assessment/No Savings	Each	640
			Advanced Thermostat	Each	432
			Showerheads (IU)	Each	172
			Shower Timer	Each	166
Faucet Aerator - Bathroom (IU)	Each		163		
Faucet Aerator - Kitchen (IU)	Each		134		

Program Category	Program Path	Measure	Quantity Unit	Installed Quantity	
		Reprogrammable Thermostats	Each	81	
		Programmable Thermostats	Each	34	
		Assessment/No Savings - DAC	Each	1	
		Faucet Aerator - Bathroom (IU) - DAC	Each	1	
		Faucet Aerator - Kitchen (IU) - DAC	Each	1	
		Shower Timer - DAC	Each	1	
		Attic Insulation	SQ FT	133,745	
		ASI	Air Sealing	Each	55,006
		Assessment/No Savings	Each	23	

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

3. Program Savings Detail

Table 3-1 summarizes the energy savings the Multi-Family Program achieved by the DI, Prescriptive, CPOP and ASI paths in 2023.

Table 3-1. 2023 Annual Energy Savings Summary

Program Category	Program Path	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
Multi-Family Market Rate	CPOP	336,323	105%	352,054	0.93	1.048	343,126
	CPOP - DAC	62,193	100%	62,193	1.00	NA	62,193
	Prescriptive	84,846	101%	85,412	0.93	1.048	83,246
	Prescriptive – DAC	26,261	100%	26,163	1.00	NA	26,163
	Direct Install	30,182	122%	36,862	0.92	1.048	35,422
	Direct Install – DAC	8	100%	8	1.00	NA	8
	ASI	41,840	100%	41,841	0.93	1.048	40,780
Total or Weighted Average		581,655	104%	604,533			590,939

* 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/>. Disadvantaged communities (DAC) designated sites based on zip codes used a NTG of 1.0

‡ The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.048 (not applicable to DAC designation sites).

Source: Guidehouse evaluation team analysis.

4. Program Savings by Measure

The program includes 40 measures, as shown in Table 4-1. The Boiler Tune Up and Pipe Insulation measures of the CPOP path contributed the most savings to the Multi-Family Market Rate program during 2023.

Table 4-1. 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†	NPSO‡	Verified Net Savings (Therms)		
Multi-Family	CPOP	Boiler Tune Up	153,080	100%	153,080	0.93	1.048	149,198		
		Pipe Insulation	84,327	111%	93,979	0.93	1.048	91,596		
		Steam Trap	42,222	122%	51,712	0.93	1.048	50,400		
		DHW Controller	30,660	100%	30,660	0.93	1.048	29,883		
		Steam Boiler Averaging Controls	11,448	100%	11,448	0.93	1.048	11,157		
		DHW Tank Insulation	12,393	72%	8,982	0.93	1.048	8,754		
		Boiler Linkageless Controls	1,613	100%	1,613	0.93	1.048	1,572		
		Boiler Reset Controls	580	100%	580	0.93	1.048	566		
		Assessment/No Savings	-	-	-	-	NA	-		
		DHW Controller - DAC	56,618	100%	56,618	1.00	NA	56,618		
		Pipe Insulation - DAC	3,627	100%	3,627	1.00	NA	3,627		
		Boiler Tune Up - DAC	1,948	100%	1,948	1.00	NA	1,948		
		CPOP Subtotal			398,517	104%	414,247			405,319
		Prescriptive		Pipe Insulation	42,130	100%	42,122	0.93	1.048	41,054
Boiler Tune Up	24,316			100%	24,316	0.93	1.048	23,699		
High Efficiency Boiler	11,797			100%	11,797	0.93	1.048	11,498		

Program Category	Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
		Pool Covers	5,441	100%	5,441	0.93	1.048	5,303
		High Efficiency Furnace (IU)	697	100%	697	0.93	1.048	679
		High Efficiency Furnace (CA)	422	169%	713	0.93	1.048	695
		Storage Water Heater	44	746%	327	0.93	1.048	319
		Pipe Insulation - DAC	12,414	99%	12,316	1.00	NA	12,316
		High Efficiency Boiler - DAC	8,732	100%	8,732	1.00	NA	8,732
		Boiler Tune Up - DAC	4,781	100%	4,781	1.00	NA	4,781
		High Efficiency Furnace (IU) - DAC	135	100%	135	1.00	NA	135
		Boiler Reset Controls - DAC	200	100%	200	1.00	NA	200
		Prescriptive Subtotal	111,108	101%	111,575			109,409
		Advanced Thermostat	22,188	130%	28,785	0.90	1.048	27,150
		Reprogrammable Thermostats	3,149	104%	3,281	0.96	1.048	3,301
		Showerheads (IU)	2,147	99%	2,126	1.01	1.048	2,250
		Programmable Thermostats	1,397	99%	1,377	0.96	1.048	1,385
	Direct Install	Shower Timer	636	99%	630	0.96	1.048	634
		Faucet Aerator - Kitchen (IU)	387	100%	386	1.01	1.048	408
		Faucet Aerator - Bathroom (IU)	278	100%	278	1.01	1.048	294
		Shower Timer - DAC	4	99%	4	1.00	NA	4
		Faucet Aerator - Kitchen (IU) - DAC	3	100%	3	1.00	NA	3

Program Category	Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
		Faucet Aerator - Bathroom (IU) - DAC	2	100%	2	1.00	NA	2
		Direct Install Subtotal	30,191	122%	36,870	NA	NA	35,431
ASI		Air Sealing	22,882	100%	22,882	0.93	1.048	22,302
		Attic Insulation	18,959	100%	18,959	0.93	1.048	18,478
		ASI Subtotal	41,840	100%	41,841			40,780
Total or Weighted Average			581,655	104%	604,533			590,939

* 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/>. Disadvantaged communities (DAC) designated sites based on zip codes used a NTG of 1.0

‡ The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.048 (not applicable to DAC designation sites).

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

5. Impact Analysis Findings and Recommendations

The overall realization rate for the Multi-Family Market Rate program was 103% for herms in 2023. Many of the measures were calculated correctly, as a result, the evaluation team made minor changes during our review.

5.1 Impact Parameter Estimates

Table 5-1 shows the unit Therm savings and realization rate findings by measure from our review. The gross realization rate is the ratio of the verified savings to the ex ante savings. Following Table 5-1 are findings and recommendations, including discussion of all measures with realization rates above or below 100%. Appendix 1 provides a description of the impact analysis methodology.

Table 5-1. 2023 Verified Gross Savings Parameters

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Data Source(s)
Advanced Thermostat	Unit	Varies	66.63	130%	Illinois TRM, v11.0†, Section 5.3.16 and PTD*
Air Sealing	Unit	0.42	0.42	100%	Illinois TRM, v11.0†, Section 5.6.1 and PTD*
Attic Insulation	SQ FT	Varies	Varies	86%	Illinois TRM, v11.0†, Section 5.6.5 and PTD*
Boiler Linkageless Controls	Unit	1613.00	1613.00	100%	Illinois TRM, v11.0†, Section 4.4.21 and PTD*
Boiler Reset Controls	Unit	Varies	Varies	100%	Illinois TRM, v11.0†, Section 4.4.4 and PTD*
Boiler Tune Up	Unit	Varies	Varies	100%	Illinois TRM, v11.0†, Section 4.4.2 and PTD*
DHW Controller	Unit	62.70	62.70	100%	Illinois TRM, v11.0†, Section 4.3.8 and PTD*
DHW Tank Insulation	SQ FT	Varies	Varies	72%	Illinois TRM, v11.0†, Section 4.3.12 and PTD*
Faucet Aerator - Bathroom (IU)	Unit	1.71	1.71	100%	Illinois TRM, v11.0†, Section 5.4.4 and PTD*
Faucet Aerator - Kitchen (IU)	Unit	Varies	Varies	100%	Illinois TRM, v11.0†, Section 5.4.4 and PTD*
High Efficiency Boiler	Unit	Varies	Varies	100%	Illinois TRM, v11.0†, Section 4.4.10 and PTD*
High Efficiency Furnace (CA)	Unit	Varies	Varies	169%	Illinois TRM, v11.0†, Section 4.4.11 and PTD*
High Efficiency Furnace (IU)	Unit	Varies	Varies	100%	Illinois TRM, v11.0†, Section 5.3.7 and PTD*
Pipe Insulation	Ln Ft	Varies	Varies	107%	Illinois TRM, v11.0†, Section 4.4.14 and PTD*
Pool Covers	SQ FT	1.01	1.01	100%	Illinois TRM, v11.0†, Section 5.4.10 and PTD*
Programmable Thermostats	Unit	Varies	40.50	99%	Illinois TRM, v11.0†, Section 5.3.11 and PTD*
Reprogrammable Thermostats	Unit	38.88	40.50	104%	Illinois TRM, v11.0†, Section 5.3.11 and PTD*
Shower Timer	Unit	3.83	3.79	99%	Illinois TRM, v11.0†, Section 5.4.9 and PTD*

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Data Source(s)
Showerheads (IU)	Unit	12.48	12.36	99%	Illinois TRM, v11.0†, Section 5.4.5 and PTD*
Steam Boiler Averaging Controls	Unit	Varies	Varies	100%	Illinois TRM, v11.0†, Section 4.4.36 and PTD*
Steam Trap	Unit	Varies	209.36	122%	Illinois TRM, v11.0†, Section 4.4.16 and PTD*
Storage Water Heater	Unit	Varies	163.42	746%	Illinois TRM, v11.0†, Section 4.3.1 and PTD*

* Program Tracking Data (PTD) provided by Nicor Gas, extract dated January 30, 2024.

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

5.2 Findings and Recommendations

The evaluation team developed several findings and recommendations based on the 2023 evaluation. The findings and recommendations are organized by path type in the following sections. The overall impact of these findings on the program is small, as the program achieved a 104% realization rate.

5.2.1 Centralized Plant Optimization Program (CPOP)

Finding 1. For the measure *Steam Trap - MF,IE*, the ex ante calculation used a Boiler Efficiency of 80.7% for three instances and 77.6% one instance. These baseline efficiencies are applicable for steam boilers, except for multi-family low pressure boilers. The evaluation team used a boiler efficiency of 64.8%, which is the efficiency for multi-family low pressure boilers since that was the most applicable baseline type. This value resulted in a realization rate of 122% for this measure.

Recommendation 1 Use the appropriate Boiler Efficiency for the Multi-family program consistent with the IL-TRM (Section 4.4.16).

Finding 2. For five instances of the *DHW storage tank insulation* measure and five instances of the *pipe insulation* measure, the evaluation team could not replicate the ex ante savings per measure, based on the supplied program data and reference from the Master Measure Database (MMDB) of measure calculation. This issue led to a realization rate of 72% for tank insulation measures and 111% for pipe insulation measures.

Recommendation 23. Review the savings algorithm and the inputs used in the savings calculation and ensure these match the algorithms from the IL-TRM (Section 4.3.12).

5.2.2 Prescriptive

Finding 3. For four instances of the *Pipe Insulation, Indoor Hot Water DHW* measure, the ex ante calculation used a thermal regain factor (TRF) of 1.0. However, the program data reported a TRF of 0.15 for three instances and 0.7 for one instance. The evaluation team calculated the

savings using the reported TRF from the program data, leading to a measure level realization rate of 99%.

Recommendation 3. Ensure correct inputs are reported and used in the savings calculation consistent with the IL-TRM (Section 4.4.14).

Finding 4. For the *Common Areas (CA) Furnace, >95% AFUE* measure, the evaluation team could not replicate the ex ante savings based on the supplied program data and references from the Master Measure Database (MMDB). The evaluation team leveraged measure-specific inputs from the program tracking data and technical assumptions from the IL-TRM to determine the verified savings. This issue led to a realization rate of 169% for furnace measures.

Recommendation 4. Review the savings algorithm and the inputs being used in the savings calculation and ensure these matches the algorithms from the IL-TRM (Section 4.4.11 for CA Furnace).

Finding 5. For the Storage Water Heater, >88% TE measure, the ex ante savings reported only the standby loss reduction as quantified by the IL-TRM algorithm (Section 4.3.1 Water Heater). The evaluation team included the standby loss savings, as well as the efficiency savings for the two Storage Water Heater, >88% TE measures.

Recommendation 5. Ensure that the savings for Storage water heater measures included both efficiency improvements as well as standby loss savings consistent with Section 4.3.1 of the IL-TRM.

5.2.3 Direct Install (DI)

Finding 6. For the *Programmable Thermostat (DI) MF-IU, Re-Program Thermostat (DI) MF-IU and Advanced Thermostat (DI) – Manual* measures, the program data reported net therms savings as gross therms. The evaluation team calculated the savings using algorithm and values consistent with the IL-TRM and used NTG ratios consistent with ILSAG NTG 2023 values. This change led to an overall gross realization rate of 99% for Programmable, 104% for Re-Program and 130% for Advance Thermostat.

Recommendation 6. Review the ex ante therms reported in the program tracking data to ensure that therms reported as gross do not include the application of the NTG ratio.

Finding 7. For four instances of the *Programmable Thermostat (DI) MF-IU* measure, the ex ante savings used 1,485 therms as an input for the gas heating consumption variable in the algorithm. For all other instances, the ex ante savings used furnace heating load of 1,005 therms. The evaluation team used a furnace heating load of 1,005 therms for all instances consistent with the IL-TRM default value, leading to a realization rate of 99%.

Recommendation 78 Ensure savings are calculated using consistent inputs for all relevant instances of each measure.

Finding 8. For water saving measures, the evaluation team could not replicate the ex ante savings based on the supplied program data and reference from the Master Measure Database

(MMDB) of measure calculation. This issue led to a realization rate of 99% for these water saving measures in the Prescriptive path:

- Handheld Showerhead (DI) MF-IU
- Low Flow Aerator - Bath (DI) MF-IU
- Low Flow Aerator - Kitchen (DI) MF-IU
- Showerhead (DI) MF-IU
- Shower Timer, MF

Recommendation 8 Review the savings algorithm and the inputs being used in the savings calculation and ensure these match the algorithms from the IL-TRM.

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 v11.0 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 v11.0.
- 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 2023, 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 Disadvantaged Areas (DAC) postal codes, a NTG ratio of 1.0 is used.
- Guidehouse sourced methodologies and assumptions from the Illinois IL-TRM v11.0 and the final 2023 tracking data.

Appendix B. Program Specific Inputs for the Illinois TRC

Table B-1 shows the Total Resource Cost (TRC) cost-effectiveness analysis inputs available at the time of producing this impact evaluation report. Additional required cost data (e.g., measure costs, program level incentive and non-incentive costs) are not included in Table B-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 B-1. 2023 Verified Cost Effectiveness Inputs

Program Category	Program Path	Savings Category	Units	Quantity	Effective Useful Life	Ex Ante Gross Savings (Therms)	Verified Gross Savings (Therms)	Verified Net Savings (Therms)
Multi-Family	CPOP	Pipe Insulation	Ln Ft	24,336	15	84,327	93,979	91,596
		DHW Controller	Unit	489	15	30,660	30,660	29,883
		Steam Boiler Averaging Controls	Unit	4	20	11,448	11,448	11,157
		DHW Tank Insulation	SQ FT	1,644	15	12,393	8,982	8,754
		Boiler Tune Up	Unit	2	3	2,228	2,228	2,172
		Boiler Linkageless Controls	Unit	1	20	1,613	1,613	1,572
		DHW Controller - DAC	Unit	903	15	56,618	56,618	56,618
		Pipe Insulation - DAC	Ln Ft	1,000	15	3,627	3,627	3,627
	Boiler Tune Up - DAC	Unit	1	3	1,948	1,948	1,948	
	Boiler Tune Up - IE	Unit	104	3	150,851	150,851	150,851	
	Steam Trap - IE	Unit	247	15	42,222	51,712	51,712	
	Prescriptive	Pipe Insulation	Ln Ft	13,037	15	42,130	42,122	41,054
		Boiler Tune Up	Unit	22	3	24,316	24,316	23,699
		High Efficiency Boiler	Unit	12	25	11,797	11,797	11,498
		Pool Covers	SQ FT	5,387	6	5,441	5,441	5,303
		High Efficiency Furnace (IU)	Unit	5	20	697	697	679
High Efficiency Furnace (CA)		Unit	2	16.5	422	713	695	

Program Category	Program Path	Savings Category	Units	Quantity	Effective Useful Life	Ex Ante Gross Savings (Therms)	Verified Gross Savings (Therms)	Verified Net Savings (Therms)	
		Storage Water Heater	Unit	2	15	44	327	319	
		Pipe Insulation - DAC	Ln Ft	4,022	15	12,414	12,316	12,316	
		High Efficiency Boiler - DAC	Unit	3	25	8,732	8,732	8,732	
		Boiler Tune Up - DAC	Unit	1	3	4,781	4,781	4,781	
		High Efficiency Furnace (IU) - DAC	Unit	1	20	135	135	135	
		Boiler Reset Controls - DAC	Unit	1,401	16	200	200	200	
	Direct Install	Advanced Thermostat	Unit	432	11	22,188	28,785	27,150	
		Reprogrammable Thermostats	Unit	81	2	3,149	3,281	3,301	
		Showerheads (IU)	Unit	172	10	2,147	2,126	2,250	
		Programmable Thermostats	Unit	34	16	1,397	1,377	1,385	
		Shower Timer	Unit	166	2	636	630	634	
		Faucet Aerator - Kitchen (IU)	Unit	134	10	387	386	408	
		Faucet Aerator - Bathroom (IU)	Unit	163	10	278	278	294	
		Shower Timer - DAC	Unit	1	2	4	4	4	
		Faucet Aerator - Kitchen (IU) - DAC	Unit	1	10	3	3	3	
		Faucet Aerator - Bathroom (IU) - DAC	Unit	1	10	2	2	2	
		ASI	Air Sealing	Unit	55,006	20	22,882	22,882	22,302
			Attic Insulation	SQ FT	133,745	20	18,959	18,959	18,478
Total or Weighted Average				243,786	11.7	581,655	604,533	590,939	

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