

Income Eligible Single Family Impact Evaluation Report

**Energy Efficiency Plan: Program Year 2024
(1/1/2024-12/31/2024)**

Prepared for:

**Nicor Gas Company
FINAL**

May 15, 2025

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Introduction

This report presents the results of the impact evaluation of the Nicor Gas 2024 Income Eligible Single Family (SFIE) program. This report presents the results of the impact evaluation for the measures installed through the program as well as relevant measure and program structure details. The appendices present the impact analysis methodology and Illinois total resource cost (TRC) inputs. Program year 2024 covers January 1, 2024, through December 31, 2024.

Program Description

The SFIE program has three implementation paths that are offered jointly by Nicor Gas and ComEd: (1) Illinois Home Weatherization Assistance Program (IHWAP), (2) Home Energy Assessment (HEA), and (3) Retrofits (contractor channel). These paths include installation of water heating measures (faucet aerators, showerheads, gas water heaters); advanced and programmable thermostats; air sealing, attic, duct, and rim insulation; and high efficiency boilers and furnaces:

- The IHWAP program path provides retrofits to single family households in Nicor Gas service areas with incomes at or below 80% of the area median income.
- Home Energy Assessment (HEA)
- The Retrofit program path offers assessments, direct installation of energy efficiency measures, replacement of inefficient equipment, technical assistance, and educational information for customers to further save money on energy bills.

Two additional program implementation paths are administered by Nicor Gas with 100% therm allocation to Nicor Gas:

- Joint Ameren Illinois and Nicor Gas Energy Efficiency Offering (EEO), consisting of Ameren-Nicor Gas service area measures.
- Healthy Homes (HH), which was a new program Nicor Gas had launched since 2023.

These paths include installation of water heating efficiency measures (faucet aerators, showerheads, gas water heaters); advanced and programmable thermostats; air sealing, attic, duct, and rim insulation; and high efficiency boilers and furnaces.

The program had 1,356 participants in 2024 and completed 3,737 projects as shown in Table 1.

Table 1. 2024 Volumetric Findings Detail

Participation	Ameren Nicor (EEO)	HH	IHWAP	Retrofits	HEA	Total
Participants *	25	20	93	158	1,053	1,349
Installed Projects †	70	44	203	449	2,950	3,716

* Participants are defined as unique site addresses.

† Installed projects are defined as unique vendor project IDs.

Source: Nicor Gas tracking data and evaluation team analysis.

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

Table 2. 2024 Installed Measure Quantities

Program Path	Measure	Quantity Unit	Installed Quantity
Ameren Nicor (EEO)	Advanced Thermostat (DI) - Blended	Each	4
	Air Filter Replacement	Each	3
	Air Sealing	Project	53
	Air Sealing - Door Sweep	Each	9
	Attic Insulation	Sq. ft.	15,552
	Bathroom Aerator SF (DI)	Each	14
	DHW Pipe Insulation	Ln. ft.	81
	Duct Sealing	Each	54
	Floor Insulation Above Crawlspace	Sq. ft.	11,628
	Furnace Tune Up	Each	1
	Furnace, >95% AFUE	Each	1
	Handheld Showerhead (DI) SF	Each	13
	Kitchen Aerator SF (DI)	Each	15
	Rim/Band Joist Insulation	Sq. ft.	273
	Showerhead (DI) SF	Each	8
	Storage Water Heater, >0.67 EF	Each	2
	Wall Insulation	Sq. ft.	875
HH	Advanced Thermostat (DI) - Manual	Each	21
	Advanced Thermostat (DI) - Programmable	Each	1
	Air Filter Replacement	Each	10
	Air Sealing	Project	24
	Air Sealing - Door Sweep	Each	2
	Attic Insulation	Sq. ft.	22,428
	Basement/Sidewall Insulation	Sq. ft.	692
	Bathroom Aerator SF (DI)	Each	16
	Boilers, >95% AFUE <300 MBH	Each	1
	DHW Pipe Insulation	Ln. ft.	122
	Duct Sealing	Each	26
	Floor Insulation Above Crawlspace	Sq. ft.	1,950
	Furnace Tune Up	Each	11
	Furnace, >95% AFUE	Each	1
	Handheld Showerhead (DI) SF	Each	6
	Residential Energy Recovery Ventilator (ERV)	Each	65
	Kitchen Aerator SF (DI)	Each	7
Rim/Band Joist Insulation	Sq. ft.	554	

Program Path	Measure	Quantity Unit	Installed Quantity	
IHWAP	Showerhead (DI) SF	Each	13	
	Storage Water Heater, >0.67 EF	Each	1	
	Wall Insulation	Sq. ft.	1,122	
	Advanced Thermostat (DI) - Manual	Each	35	
	Advanced Thermostat (DI) - Programmable	Each	7	
	Air Sealing	Project	192	
	Air Sealing - Door Sweep	Each	6	
	Air Sealing - Sealing Tape - DI	Each	42	
	Attic Insulation	Sq. ft.	172,352	
	Basement/Sidewall Insulation	Sq. ft.	14,503	
	Bathroom Aerator SF (DI)	Each	122	
	Boilers, >95% AFUE <300 MBH	Each	5	
	DHW Pipe Insulation	Ln. ft.	1,532	
	Duct Sealing	Each	7	
	Floor Insulation Above Crawlspace	Sq. ft.	5,909	
	Furnace Tune Up	Each	20	
	Furnace, >95% AFUE	Each	156	
	Handheld Showerhead (DI) SF	Each	26	
	Kitchen Aerator SF (DI)	Each	15	
	Programmable Thermostat (DI)	Each	64	
	Rim/Band Joist Insulation	Sq. ft.	9,427	
	Showerhead (DI) SF	Each	39	
	Storage Water Heater, >0.67 EF	Each	89	
	Wall Insulation	Sq. ft.	34,843	
	Retrofit	AC Cover and Gap Sealer (DI)	Each	2
		Advanced Thermostat (DI) - Manual	Each	22
		Advanced Thermostat (DI) - Programmable	Each	63
Air Sealing		Project	243	
Air Sealing - Door Sweep		Each	72	
Air Sealing - Door Sweep - DI		Each	26	
Air Sealing - Gasket - DI		Each	75	
Air Sealing - Sealing Tape - DI		Each	18,643	
Air Sealing - Weatherstripping - DI		Each	1,653	
Attic Insulation		Sq. ft.	257,567	
Basement/Sidewall Insulation		Sq. ft.	33,128	
Bathroom Aerator SF (DI)		Each	31	

Program Path	Measure	Quantity Unit	Installed Quantity
HEA	Boiler Tune Up, Space Heating	Each	10
	Boilers, >95% AFUE <300 MBH	Each	3
	DHW Pipe Insulation	Ln. ft.	365
	Duct Sealing	Each	123
	Floor Insulation Above Crawlspace	Sq. ft.	4,315
	Furnace Tune Up	Each	151
	Furnace, >95% AFUE	Each	71
	Handheld Showerhead (DI) SF	Each	11
	Kitchen Aerator SF (DI)	Each	9
	Programmable Thermostat (DI)	Each	15
	Rim/Band Joist Insulation	Sq. ft.	16,744
	Showerhead (DI) SF	Each	30
	Storage Water Heater, >0.67 EF	Each	17
	Wall Insulation	Sq. ft.	189,774
	Advanced Thermostat (DI) - Blended	Each	40
	Advanced Thermostat (DI) - Manual	Each	396
	Advanced Thermostat (DI) - Programmable	Each	485
	Air Filter Replacement	Each	1,975
	Air Sealing - Door Sweep	Each	1,412
	Air Sealing - Door Sweep - DI	Each	290
	Bathroom Aerator SF (DI)	Each	1,211
	Boiler Pipe Insulation	Ln. ft.	80
	DHW Pipe Insulation	Ln. ft.	3,968
	Handheld Showerhead (DI) SF	Each	885
	Kitchen Aerator SF (DI)	Each	522
	Programmable Thermostat (DI)	Each	223
	Shower Flow Reducer	Each	125
	Showerhead (DI) SF	Each	665
	Thermostat Education (DI)	Each	213

Source: Nicor Gas tracking data and evaluation team analysis.

Program Savings Detail

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

Table 3. 2024 Annual Energy Savings Summary

Program Path	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
Ameren Nicor (EEO)	31,316	1.00	31,316	1.00	31,316
HH	23,237	1.01	23,363	1.00	23,363

Program Path	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
IHWAP	101,969	1.00	101,959	1.00	101,959
Retrofit	146,278	1.00	146,206	1.00	146,206
HEA	158,573	1.00	158,394	1.00	158,394
Total	461,372	1.00	461,238	1.00	461,238

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

† NTG, Net to Gross is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>.

Source: Evaluation team analysis.

Program Savings by Measure

The program includes 36 measures as shown in Table 4. The Attic Insulation and Advanced Thermostats contributed the most savings, outside of the SEEK and ESK Kits.

Table 4. 2024 Annual Energy Savings by Measure

Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
EEO	Advanced Thermostat (DI) - Blended	280	1.00	280	1.00	280
	Air Filter Replacement	20	1.00	20	1.00	20
	Air Sealing	5,922	1.00	5,922	1.00	5,922
	Air Sealing - Door Sweep	57	1.00	57	1.00	57
	Attic Insulation	2,008	1.00	2,008	1.00	2,008
	Bathroom Aerator SF (DI)	22	1.00	22	1.00	22
	DHW Pipe Insulation	168	1.00	168	1.00	168
	Duct Sealing	20,538	1.00	20,538	1.00	20,538
	Floor Insulation Above Crawlspace	1,681	1.00	1,681	1.00	1,681
	Furnace Tune Up	8	1.00	8	1.00	8
	Furnace, >95% AFUE	143	1.00	143	1.00	143
	Handheld Showerhead (DI) SF	52	1.00	52	1.00	52
	Kitchen Aerator SF (DI)	125	1.00	125	1.00	125
	Rim/Band Joist Insulation	31	1.00	31	1.00	31
	Showerhead (DI) SF	31	1.00	31	1.00	31
	Storage Water Heater, >0.67 EF	93	1.00	93	1.00	93
	Wall Insulation	135	1.00	135	1.00	135
	HH	Advanced Thermostat (DI) - Manual	2,103	1.00	2,103	1.00
Advanced Thermostat (DI) - Programmable		71	1.00	71	1.00	71
Air Filter Replacement		78	1.00	78	1.00	78
Air Sealing		3,188	1.00	3,188	1.00	3,188
Air Sealing - Door Sweep		15	1.00	15	1.00	15
Attic Insulation		3,148	1.00	3,148	1.00	3,148
Basement/Sidewall Insulation		340	1.00	340	1.00	340

Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
	Bathroom Aerator SF (DI)	24	1.00	24	1.00	24
	Boilers, >95% AFUE <300 MBH	-9	1.00	-9	1.00	-9
	DHW Pipe Insulation	254	1.00	254	1.00	254
	Duct Sealing	11,772	1.01	11,906	1.00	11,906
	Floor Insulation Above Crawlspace	341	1.00	341	1.00	341
	Furnace Tune Up	761	0.99	752	1.00	752
	Furnace, >95% AFUE	346	1.00	346	1.00	346
	Handheld Showerhead (DI) SF	25	1.00	25	1.00	25
	Residential Energy Recovery Ventilator (ERV)	150	1.00	150	1.00	150
	Kitchen Aerator SF (DI)	100	1.00	100	1.00	100
	Rim/Band Joist Insulation	87	1.00	87	1.00	87
	Showerhead (DI) SF	67	1.00	67	1.00	67
	Storage Water Heater, >0.67 EF	220	1.00	220	1.00	220
	Wall Insulation	156	1.00	156	1.00	156
	Advanced Thermostat (DI) - Manual	3,573	1.00	3,573	1.00	3,573
	Advanced Thermostat (DI) - Programmable	499	1.00	499	1.00	499
	Air Sealing	14,434	1.00	14,434	1.00	14,434
	Air Sealing - Door Sweep	44	1.00	44	1.00	44
	Air Sealing - Sealing Tape - DI	17	1.00	17	1.00	17
	Attic Insulation	21,523	1.00	21,523	1.00	21,523
	Basement/Sidewall Insulation	5,068	1.00	5,068	1.00	5,068
	Bathroom Aerator SF (DI)	109	1.00	109	1.00	109
	Boilers, >95% AFUE <300 MBH	2,038	1.00	2,038	1.00	2,038
	DHW Pipe Insulation	3,141	1.00	3,141	1.00	3,141
IHWAP	Duct Sealing	607	1.00	606	1.00	606
	Floor Insulation Above Crawlspace	717	1.00	717	1.00	717
	Furnace Tune Up	813	1.00	813	1.00	813
	Furnace, >95% AFUE	36,032	1.00	36,032	1.00	36,032
	Handheld Showerhead (DI) SF	57	1.00	57	1.00	57
	Kitchen Aerator SF (DI)	117	1.00	117	1.00	117
	Programmable Thermostat (DI)	3,836	1.00	3,836	1.00	3,836
	Rim/Band Joist Insulation	1,278	1.00	1,278	1.00	1,278
	Showerhead (DI) SF	109	1.00	109	1.00	109
	Storage Water Heater, >0.67 EF	3,861	1.00	3,861	1.00	3,861
	Wall Insulation	4,094	1.00	4,094	1.00	4,094
Retrofit	AC Cover and Gap Sealer (DI)	14.48	1.00	14.48	1.00	14.48

Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
	Advanced Thermostat (DI) - Manual	2,149	1.00	2,149	1.00	2,149
	Advanced Thermostat (DI) - Programmable	4,439	1.00	4,439	1.00	4,439
	Air Sealing	22,595	1.00	22,596	1.00	22,596
	Air Sealing - Door Sweep	528	1.00	528	1.00	528
	Air Sealing - Door Sweep - DI	190	1.00	190	1.00	190
	Air Sealing - Gasket - DI	28	1.00	28	1.00	28
	Air Sealing - Sealing Tape - DI	7,789	1.00	7,789	1.00	7,789
	Air Sealing - Weatherstripping - DI	809	1.00	809	1.00	809
	Attic Insulation	40,186	1.00	40,186	1.00	40,186
	Basement/Sidewall Insulation	5,925	1.00	5,925	1.00	5,925
	Bathroom Aerator SF (DI)	34	1.00	34	1.00	34
	Boiler Tune Up, Space Heating	1,075	1.00	1,075	1.00	1,075
	Boilers, >95% AFUE <300 MBH	580	1.00	580	1.00	580
	DHW Pipe Insulation	742	1.00	742	1.00	742
	Duct Sealing	16,009	1.00	15,936	1.00	15,936
	Floor Insulation Above Crawlspace	547	1.00	547	1.00	547
	Furnace Tune Up	9,200	1.00	9,200	1.00	9,200
	Furnace, >95% AFUE	11,616	1.00	11,616	1.00	11,616
	Handheld Showerhead (DI) SF	31	1.00	31	1.00	31
	Kitchen Aerator SF (DI)	78	1.00	78	1.00	78
	Programmable Thermostat (DI)	975	1.00	975	1.00	975
	Rim/Band Joist Insulation	1,934	1.00	1,934	1.00	1,934
	Showerhead (DI) SF	96	1.00	96	1.00	96
	Storage Water Heater, >0.67 EF	537	1.00	537	1.00	537
	Wall Insulation	18,170	1.00	18,170	1.00	18,170
	Advanced Thermostat (DI) - Blended	1,111	1.00	1,111	1.00	1,111
	Advanced Thermostat (DI) - Manual	40,570	1.00	40,570	1.00	40,570
	Advanced Thermostat (DI) - Programmable	34,161	1.00	34,161	1.00	34,161
	Air Filter Replacement	15,635	1.00	15,635	1.00	15,635
	Air Sealing - Door Sweep	10,241	1.00	10,241	1.00	10,241
	Air Sealing - Door Sweep - DI	2,089	1.00	2,089	1.00	2,089
	Bathroom Aerator SF (DI)	1,054	1.00	1,054	1.00	1,054
	Boiler Pipe Insulation	35	1.00	35	1.00	35
	DHW Pipe Insulation	7,476	1.00	7,476	1.00	7,476
	Handheld Showerhead (DI) SF	7,226	1.00	7,226	1.00	7,226
	Kitchen Aerator SF (DI)	3,578	1.00	3,578	1.00	3,578

HEA

Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
	Programmable Thermostat (DI)	14,930	0.98	14,642	1.00	14,642
	Shower Flow Reducer	1,143	1.00	1,143	1.00	1,143
	Showerhead (DI) SF	5,602	1.00	5,602	1.00	5,602
	Thermostat Education (DI)	13,723	1.01	13,833	1.00	13,833
Total		461,372	1.00	461,238	1.00	461,238

Source: Evaluation team analysis.

Impact Analysis Findings and Recommendations

Impact Parameter Estimates

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

Table 5. Verified Gross Savings Parameters

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Data Source(s)
AC Cover and Gap Sealer (DI)	Each	7.24	7.24	100%	Illinois TRM, v12.0†, Section 4.4.38 and Nicor Gas Program Tracking Data (PTD*)
Advanced Thermostat (DI) - Blended	Each	31.61	31.61	100%	Section 5.3.16 and PTD
Advanced Thermostat (DI) - Manual	Each	102.1	102.1	100%	Section 5.3.16 and PTD
Advanced Thermostat (DI) - Programmable	Each	70.45	70.45	100%	Section 5.3.16 and PTD
Air Filter Replacement	Each	7.91	7.91	100%	Section 5.3.21 and PTD
Air Sealing	Project	90.12	90.12	100%	Section 5.6.1 and PTD
Air Sealing - Door Sweep	Each	7.25	7.25	100%	Section 5.6.1 and PTD
Air Sealing - Door Sweep - DI	Each	7.21	7.21	100%	Section 5.6.1 and PTD
Air Sealing - Gasket - DI	Each	0.38	0.38	100%	Section 5.6.1 and PTD
Air Sealing - Sealing Tape - DI	Each	0.42	0.42	100%	Section 5.6.1 and PTD
Air Sealing - Weatherstripping - DI	Each	0.49	0.49	100%	Section 5.6.1 and PTD
Attic Insulation	Sq. ft.	0.14	0.14	100%	Section 5.6.5 and PTD

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Data Source(s)
Basement/Sidewall Insulation	Sq. ft.	0.23	0.23	100%	Section 5.6.2 and PTD
Bathroom Aerator SF (DI)	Each	0.89	0.89	100%	Section 5.4.4 and PTD
Boiler Pipe Insulation	Ln. ft.	0.43	0.43	100%	Section 5.3.2 and PTD
Boiler Tune Up, Space Heating	Each	107.46	107.46	100%	Section 4.4.2 and PTD
Boilers, >95% AFUE <300 MBH	Each	289.83	289.83	100%	Section 5.3.6 and PTD
DHW Pipe Insulation	Ln. ft.	1.94	1.94	100%	Section 5.4.1 and PTD
Duct Sealing	Each	232.98	233.27	100%	Section 5.3.4 and PTD
Floor Insulation Above Crawlspace	Sq. ft.	0.14	0.14	100%	Section 5.6.3 and PTD
Furnace Tune Up	Each	58.92	58.87	100%	Section 5.3.13 and PTD
Furnace, >95% AFUE	Each	210.2	210.17	100%	Section 5.3.7 and PTD
Handheld Showerhead (DI) SF	Each	7.85	7.85	100%	Section 5.4.5 and PTD
Residential Energy Recovery Ventilator (ERV)	Each	2.31	2.31	100%	Section 5.3.20 and PTD
Kitchen Aerator SF (DI)	Each	7.04	7.04	100%	Section 5.4.4 and PTD
Programmable Thermostat (DI)	Each	65.37	64.41	99%	Section 5.3.11 and PTD
Rim/Band Joist Insulation	Sq. ft.	0.12	0.12	100%	Section 5.6.6 and PTD
Shower Flow Reducer	Each	9.15	9.15	100%	Section 5.4.5 and PTD
Showerhead (DI) SF	Each	7.82	7.82	100%	Section 5.4.5 and PTD
Storage Water Heater, >0.67 EF	Each	43.22	43.22	100%	Section 5.4.2 and PTD
Thermostat Education (DI)	Each	64.43	64.94	101%	Section 5.3.11 and PTD
Wall Insulation	Sq. ft.	0.10	0.10	100%	Section 5.6.4 and PTD

* Program Tracking Data (PTD) provided by Nicor Gas, extract dated January 30, 2025.

† State of Illinois Technical Reference Manual version 12.0 from <http://www.ilsag.info/technical-reference-manual.html>.

Source: Evaluation team analysis.

Findings and Recommendations

Finding 1. The evaluation team found that there were instances of 4 Programmable Thermostats measures that shared the same project ID, but 3/4 of them were claimed in savings. The evaluation team claimed one of these measures (MEA-2024.04.22-688444), but claimed the rest of the measures as 0. The following two measure IDs were claimed by ex ante gross savings (MEA-2024.04.22-688448, MEA-2024.04.22-688447).

Recommendation 1. Ensure ex ante gross savings is claiming one thermostat per home.

Finding 2. There were 7 Furnace Tune-up measures that had an RR between 40%-1407%, however this was corrected with supplemental data. The evaluation team found that the

Equipment Efficiency (Ei) savings input did not reflect the data found in the joint program with ComEd tracking data provided by the implementation contractor. The measure IDs were (MEA-2023.11.29-613300, MEA-2024.01.10-637552, MEA-2024.02.20-652155, MEA-2024.02.20-652291, MEA-2024.03.08-663916, MEA-2024.03.15-665154, MEA-2024.09.03-767788).

Recommendation 2. Ensure savings input, Ei, found in Nicor's tracking data corresponds with the savings inputs used to determine ex ante therm savings. In this instance it should reflect the IC's tracking data for joint measures.

Finding 3. The evaluation team found the project measure, MEA-2024.10.01-779768, was labeled as Indoor Air Quality Services instead of Residential Energy Recovery Ventilator (ERV). The evaluation team was able to determine this measure as ERV due to the measure notes found in Nicor's tracking data.

Recommendation 3. Ensure new measures such as the Residential ERV measure is labeled correctly.

Appendix A. Impact Analysis Methodology

The evaluation team determined the verified gross for each program measure by the following methodology:

- Reviewing the savings algorithm inputs in the measure workbook with the IL TRM v12 and IL-TRM Errata, when applicable
- Referencing SFHU Savings Calculator to validate the savings algorithm was applied correctly
- Cross-checking ComEd's 2024 year-end data to validate missing 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 this table and will be provided to the evaluation team later. Guidehouse will include annual and lifetime water savings and greenhouse gas reductions in the end of year summary report.

Table B-1. Verified Cost Effectiveness Inputs

Program Category	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)
Private	Ameren Nicor	Advanced Thermostat (DI) - Blended	FALSE	Each	4	11.00	NO		280	280	280
		Air Filter Replacement	FALSE	Each	3	3.00	NO		20.00	20.00	20.00
		Air Sealing	FALSE	Project	53	20.00	NO		5,922	5,922	5,922
		Air Sealing - Door Sweep	FALSE	Each	9	20.00	NO		57.00	57.00	57.00
		Attic Insulation	FALSE	Sq. ft.	15552	30.00	NO		2,008	2,008	2,008
		Bathroom Aerator SF (DI)	FALSE	Each	14	10.00	NO	3,467	22.00	22.00	22.00
		DHW Pipe Insulation	FALSE	Ln. ft.	81	15.00	NO		168	168	168
		Duct Sealing	FALSE	Each	54	20.00	NO		20,538	20,538	20,538
		Floor Insulation Above Crawlspace	FALSE	Sq. ft.	11628	30.00	NO		1,681	1,681	1,681
		Furnace Tune Up	FALSE	Each	1	3.00	NO		8.00	8.00	8.00
		Furnace, >95% AFUE	FALSE	Each	1	20.00	YES		143	143	143
		Handheld Showerhead (DI) SF	FALSE	Each	13	10.00	NO	8,801	52.00	52.00	52.00
		Kitchen Aerator SF (DI)	FALSE	Each	15	10.00	NO	27,686	125	125	125
		Rim/Band Joist Insulation	FALSE	Sq. ft.	273	30.00	NO		31.00	31.00	31.00
		Showerhead (DI) SF	FALSE	Each	8	10.00	NO	4,840	31.00	31.00	31.00
		Storage Water Heater, >0.67 EF	FALSE	Each	2	13.30	YES		93.00	93.00	93.00
		Wall Insulation	FALSE	Sq. ft.	875	30.00	NO		135	135	135
Private	HH	Advanced Thermostat (DI) - Manual	FALSE	Each	21	11.00	NO		2,103	2,103	2,103
		Advanced Thermostat (DI) - Programmable	FALSE	Each	1	11.00	NO		71.00	71.00	71.00
		Air Filter Replacement	FALSE	Each	10	3.00	NO		78.00	78.00	78.00
		Air Sealing	FALSE	Project	24	20.00	NO		3,188	3,188	3,188
		Air Sealing - Door Sweep	FALSE	Each	2	20.00	NO		15.00	15.00	15.00
		Attic Insulation	FALSE	Sq. ft.	22428	30.00	NO		3,148	3,148	3,148
		Basement/Sidewall Insulation	FALSE	Sq. ft.	692	30.00	NO		340	340	340
		Bathroom Aerator SF (DI)	FALSE	Each	16	10.00	NO	6,323	24.00	24.00	24.00
		Boilers, >95% AFUE <300 MBH	FALSE	Each	1	25.00	YES		-9	-9	-9
		DHW Pipe Insulation	FALSE	Ln. ft.	122	15.00	NO		254	254	254
		Duct Sealing	FALSE	Each	26	20.00	NO		11,772	11,906	11,906
		Floor Insulation Above Crawlspace	FALSE	Sq. ft.	1950	30.00	NO		341	341	341
		Furnace Tune Up	FALSE	Each	11	3.00	NO		761	752	752
		Furnace, >95% AFUE	FALSE	Each	1	20.00	YES		346	346	346
		Handheld Showerhead (DI) SF	FALSE	Each	6	10.00	NO	4,620	25.00	25.00	25.00
		Residential Energy Recovery Ventilator (ERV)	FALSE	Each	65	15.00	NO		150	150	150
		Kitchen Aerator SF (DI)	FALSE	Each	7	10.00	NO	22,149	100	100	100

Program Category	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)
Private	IHWAP	Rim/Band Joist Insulation	FALSE	Sq. ft.	554	30.00	NO		87.00	87.00	87.00
		Showerhead (DI) SF	FALSE	Each	13	10.00	NO	12,321	67.00	67.00	67.00
		Storage Water Heater, >0.67 EF	FALSE	Each	1	13.30	YES		220	220	220
		Wall Insulation	FALSE	Sq. ft.	1122	30.00	NO		156	156	156
		Advanced Thermostat (DI) - Manual	FALSE	Each	35	11.00	NO		3,573	3,573	3,573
		Advanced Thermostat (DI) - Programmable	FALSE	Each	7	11.00	NO		499	499	499
		Air Sealing	FALSE	Project	192	20.00	NO		14,434	14,434	14,434
		Air Sealing - Door Sweep	FALSE	Each	6	20.00	NO		44.00	44.00	44.00
		Air Sealing - Sealing Tape - DI	FALSE	Each	42	20.00	NO		17.00	17.00	17.00
		Attic Insulation	FALSE	Sq. ft.	172352	30.00	NO		21,523	21,523	21,523
		Basement/Sidewall Insulation	FALSE	Sq. ft.	14503	30.00	NO		5,068	5,068	5,068
		Bathroom Aerator SF (DI)	FALSE	Each	122	10.00	NO	27,795	109	109	109
		Boilers, >95% AFUE <300 MBH	FALSE	Each	5	25.00	YES		2,038	2,038	2,038
		DHW Pipe Insulation	FALSE	Ln. ft.	1532	15.00	NO		3,141	3,141	3,141
		Duct Sealing	FALSE	Each	7	20.00	NO		607	606	606
		Floor Insulation Above Crawlspace	FALSE	Sq. ft.	5909	30.00	NO		717	717	717
		Furnace Tune Up	FALSE	Each	20	3.00	NO		813	813	813
		Furnace, >95% AFUE	FALSE	Each	156	20.00	YES		36,032	36,032	36,032
		Handheld Showerhead (DI) SF	FALSE	Each	26	10.00	NO	10,341	57.00	57.00	57.00
		Kitchen Aerator SF (DI)	FALSE	Each	15	10.00	NO	25,946	117	117	117
		Programmable Thermostat (DI)	FALSE	Each	64	16.00	NO		3,836	3,836	3,836
		Rim/Band Joist Insulation	FALSE	Sq. ft.	9427	30.00	NO		1,278	1,278	1,278
		Showerhead (DI) SF	FALSE	Each	39	10.00	NO	20,075	109	109	109
		Storage Water Heater, >0.67 EF	FALSE	Each	89	13.30	YES		3,861	3,861	3,861
		Wall Insulation	FALSE	Sq. ft.	34843	30.00	NO		4,094	4,094	4,094
		AC Cover and Gap Sealer (DI)	FALSE	Each	2	5.00	NO		14.48	14.48	14.48
Advanced Thermostat (DI) - Manual	FALSE	Each	22	11.00	NO		2,149	2,149	2,149		
Advanced Thermostat (DI) - Programmable	FALSE	Each	63	11.00	NO		4,439	4,439	4,439		
Air Sealing	FALSE	Project	243	20.00	NO		22,595	22,596	22,596		
Air Sealing - Door Sweep	FALSE	Each	72	20.00	NO		528	528	528		
Air Sealing - Door Sweep - DI	FALSE	Each	26	20.00	NO		190	190	190		
Air Sealing - Gasket - DI	FALSE	Each	75	20.00	NO		28.00	28.00	28.00		
Air Sealing - Sealing Tape - DI	FALSE	Each	18643	20.00	NO		7,789	7,789	7,789		
Air Sealing - Weatherstripping - DI	FALSE	Each	1653	20.00	NO		809	809	809		
Attic Insulation	FALSE	Sq. ft.	257567	30.00	NO		40,186	40,186	40,186		
Basement/Sidewall Insulation	FALSE	Sq. ft.	33128	30.00	NO		5,925	5,925	5,925		

Program Category	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)
		Bathroom Aerator SF (DI)	FALSE	Each	31	10.00	NO	9,007	34.00	34.00	34.00
		Boiler Tune Up, Space Heating	FALSE	Each	10	3.00	NO		1,075	1,075	1,075
		Boilers, >95% AFUE <300 MBH	FALSE	Each	3	25.00	YES		580	580	580
		DHW Pipe Insulation	FALSE	Ln. ft.	365	15.00	NO		742	742	742
		Duct Sealing	FALSE	Each	123	20.00	NO		16,009	15,936	15,936
		Floor Insulation Above Crawlspace	FALSE	Sq. ft.	4315	30.00	NO		547	547	547
		Furnace Tune Up	FALSE	Each	151	3.00	NO		9,200	9,200	9,200
		Furnace, >95% AFUE	FALSE	Each	71	20.00	YES		11,616	11,616	11,616
		Handheld Showerhead (DI) SF	FALSE	Each	11	10.00	NO	5,729	31.00	31.00	31.00
		Kitchen Aerator SF (DI)	FALSE	Each	9	10.00	NO	17,340	78.00	78.00	78.00
		Programmable Thermostat (DI)	FALSE	Each	15	16.00	NO		975	975	975
		Rim/Band Joist Insulation	FALSE	Sq. ft.	16744	30.00	NO		1,934	1,934	1,934
		Showerhead (DI) SF	FALSE	Each	30	10.00	NO	17,848	96.00	96.00	96.00
		Storage Water Heater, >0.67 EF	FALSE	Each	17	13.30	YES		537	537	537
		Wall Insulation	FALSE	Sq. ft.	189774	30.00	NO		18,170	18,170	18,170
		Advanced Thermostat (DI) - Blended	FALSE	Each	40	11.00	NO		1,111	1,111	1,111
		Advanced Thermostat (DI) - Manual	FALSE	Each	396	11.00	NO		40,570	40,570	40,570
		Advanced Thermostat (DI) - Programmable	FALSE	Each	485	11.00	NO		34,161	34,161	34,161
		Air Filter Replacement	FALSE	Each	1975	3.00	NO		15,635	15,635	15,635
		Air Sealing - Door Sweep	FALSE	Each	1412	20.00	NO		10,241	10,241	10,241
		Air Sealing - Door Sweep - DI	FALSE	Each	290	20.00	NO		2,089	2,089	2,089
Private	HEA	Bathroom Aerator SF (DI)	FALSE	Each	1211	10.00	NO	273,006	1,054	1,054	1,054
		Boiler Pipe Insulation	FALSE	Ln. ft.	80	15.00	NO		34.52	34.52	34.52
		DHW Pipe Insulation	FALSE	Ln. ft.	3968	15.00	NO		7,476	7,476	7,476
		Handheld Showerhead (DI) SF	FALSE	Each	885	10.00	NO	1,333,573	7,226	7,226	7,226
		Kitchen Aerator SF (DI)	FALSE	Each	522	10.00	NO	795,917	3,578	3,578	3,578
		Programmable Thermostat (DI)	FALSE	Each	223	16.00	NO		14,930	14,642	14,642
		Shower Flow Reducer	FALSE	Each	125	10.00	NO	211,742	1,143	1,143	1,143
		Showerhead (DI) SF	FALSE	Each	665	10.00	NO	1,035,575	5,602	5,602	5,602
		Thermostat Education (DI)	FALSE	Each	213	2.00	NO		13,723	13,833	13,833
Total or Weighted Average						18.3		3,874,100	461,372	461,238	461,238

Source: Evaluation team analysis.