



Home Energy Jumpstart Program Impact Evaluation Report

Energy Efficiency Plan: Program Year 2022
(1/1/2022-12/31/2022)

Prepared for:

Peoples Gas and North Shore Gas

FINAL

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Table of Contents

1. Introduction	1
2. Program Description	1
3. Program Savings Detail	3
4. Program Savings by Measure	5
5. Impact Analysis Findings and Recommendations	7
5.1 Impact Parameter Estimates	7
5.2 Findings and Recommendations	8
5.3 Historical RR and NTG Values	9
Appendix A. Impact Analysis Methodology	A-1
Appendix B. Program Specific Inputs for the Illinois TRC	B-1

List of Tables and Figures

Table 2-1. 2022 Volumetric Summary for PGL	1
Table 2-2. 2022 Installed Measure Quantities for PGL	2
Table 2-3. 2022 Volumetric Summary for NSG	2
Table 2-4. 2022 Installed Measure Quantities for NSG	3
Table 3-1. 2022 Annual Energy Savings Summary for PGL	3
Table 3-2. 2022 Annual Energy Savings Summary for NSG	4
Table 4-1. 2022 Annual Energy Savings by Measure for PGL	5
Table 4-2. 2022 Annual Energy Savings by Measure for NSG	6
Table 5-1. Verified Gross Savings Parameters	7
Table 5-2. Historical RR and NTG Values	9
Table B-1. Verified Cost-Effectiveness Inputs – PGL	B-1
Table B-2. Verified Cost-Effectiveness Inputs – NSG	B-2

1. Introduction

This report presents the results of the impact evaluation of the Peoples Gas (PGL) and North Shore Gas (NSG) 2022 Home Energy Jumpstart (HEJ) program and presents a summary of the energy impacts for the total program and broken out by relevant measure and program structure details. The appendices present the impact analysis methodology, detailed engineering desk review results and Illinois total resource cost (TRC) inputs. Program year 2022 covers January 1, 2022, through December 31, 2022.

2. Program Description

The 2022 HEJ program is an 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. Electric measure savings are included in a separate evaluation report delivered to ComEd.

The HEJ program seeks to secure energy savings through direct installation (DI) of low-cost efficiency measures, including water efficient showerheads and faucet aerators, pipe insulation, electricity-saving devices, and programmable thermostats at eligible single-family (SF) residences, including condominiums. The program also secures energy savings through installation of advanced (smart) thermostats, which requires a participant co-payment. In addition, the program performs an assessment of the major retrofit opportunities (e.g., furnace, boiler, air conditioning, insulation, and air sealing) and heightens homeowner awareness about other available efficiency programs offered by ComEd, PGL, and NSG. A Virtual Home Assessment (VA) option was added in 2020 and continued in 2021 and 2022 to adapt to COVID restrictions. The program measures also include Leave-Behind Kits (Home Energy Assessment or HEA Kit), which include weatherstripping, door sweep, and shower timer measures.

The PGL program had 1,620 unique participants in 2022 and completed 3,565 projects as Table 2-1 shows. Typically, all virtual home assessment participants received HEA kits.

Table 2-1. 2022 Volumetric Summary for PGL

Participation	Direct Install	Virtual Home Assessment	Total
Participants *	1,620	115	1,620
Installed Projects †	3,324	242	3,565

* Participants are defined as the number of distinct account numbers with realized gas savings. Guidehouse confirmed all the VHA participants were also DI participants.

† Installed projects are defined as the number of distinct measure IDs with realized gas savings.

Source: Peoples 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. 2022 Installed Measure Quantities for PGL

Program Path	Measure	Quantity Unit	Installed Quantity
Direct Install (DI)	Advanced Thermostat (DI) - Blended	Each	3
	Advanced Thermostat (DI) – Manual	Each	73
	Advanced Thermostat (DI) - Programmable	Each	119
	Bathroom Aerator SF (DI)	Each	409
	Boiler Pipe Insulation	Linear Feet	604
	Domestic Hot Water (DHW) Pipe Insulation	Linear Feet	2,392
	Handheld Showerhead (DI) SF	Each	377
	HEA Kit	Each	1,528
	Kitchen Aerator SF (DI)	Each	129
	Programmable Thermostat (DI)	Each	159
	Re-Program Thermostat (DI)	Each	45
	Showerhead (DI) SF	Each	303
	Virtual Home Assessment (VA)	Bathroom Aerator SF (VA)	Each
Handheld Showerhead (VA) SF - 1 Showerhead		Each	53
Handheld Showerhead (VA) SF - 2 Showerheads		Each	32
Kitchen Aerator SF (VA)		Each	32
Showerhead (VA) SF - 1 Showerhead		Each	56
Showerhead (VA) SF - 2 Showerheads		Each	31

Source: Peoples Gas tracking data and Guidehouse evaluation team analysis

The NSG program had 512 participants in 2022 and completed 1,242 projects as Table 2-3 shows.

Table 2-3. 2022 Volumetric Summary for NSG

Participation	Direct Install	Virtual Home Assessment	Total
Participants *	512	52	512
Installed Projects †	1,130	112	1,242

* Participants are defined as the number of distinct account numbers with realized gas savings. Guidehouse confirmed all the VHA participants were also DI participants.

† Installed projects are defined as the number of distinct measure IDs with realized gas savings.

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

Table 2-4 summarizes the installed measure quantities that are the basis for verified energy savings.

Table 2-4. 2022 Installed Measure Quantities for NSG

Program Path	Measure	Quantity Unit	Installed Quantity
Direct Install (DI)	Advanced Thermostat (DI) - Blended	Each	4
	Advanced Thermostat (DI) - Manual	Each	29
	Advanced Thermostat (DI) - Programmable	Each	27
	Bathroom Aerator SF (DI)	Each	312
	Boiler Pipe Insulation	Linear Feet	213
	Domestic Hot Water (DHW) Pipe Insulation	Linear Feet	1,191
	Handheld Showerhead (DI) SF	Each	93
	HEA Kit	Each	456
	Kitchen Aerator SF (DI)	Each	30
	Programmable Thermostat (DI)	Each	26
	Re-Program Thermostat (DI)	Each	13
	Showerhead (DI) SF	Each	162
	Virtual Home Assessment (VA)	Bathroom Aerator SF (VA)	Each
Handheld Showerhead (VA) SF - 1 Showerhead		Each	30
Handheld Showerhead (VA) SF - 2 Showerheads		Each	27
Kitchen Aerator SF (VA)		Each	12
Showerhead (VA) SF - 1 Showerhead		Each	26
Showerhead (VA) SF - 2 Showerheads		Each	13

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

3. Program Savings Detail

Table 3-1 summarizes the energy savings the PGL HEJ program achieved by path in 2022.

Table 3-1. 2022 Annual Energy Savings Summary for PGL

Program Path	Ex Ante Gross Savings (therms)	Verified Gross RR*	Verified Gross Savings (therms)	NTG†	Verified Net Savings (therms)
Direct Install	59,462	100%	59,455	0.89	52,911
Virtual Home Assessment	803	100%	803	1.02	819
Total or Weighted Average	60,265	100%	60,258		53,730

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

† Net-to-gross (NTG): A deemed value. Available on the Stakeholder Advisory Group (SAG) website:

<https://www.ilsag.info/evaluator-ntg-recommendations-for-2022> .

Source: Peoples Gas tracking data and Guidehouse evaluation team analysis

Table 3-2 summarizes the energy savings the NSG HEJ program achieved by path in 2022.

Table 3-2. 2022 Annual Energy Savings Summary for NSG

Program Path	Ex Ante Gross Savings (therms)	Verified Gross RR*	Verified Gross Savings (therms)	NTG†	Verified Net Savings (therms)
Direct Install	17,494	100%	17,493	0.89	15,620
Virtual Home Assessment	429	100%	429	1.02	438
Total or Weighted Average	17,923	100%	17,922		16,058

* 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 website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2022>.

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

4. Program Savings by Measure

The PGL program includes 18 measures as Table 4-1 shows. The HEA kits and programmable thermostats contributed the most savings.

Table 4-1. 2022 Annual Energy Savings by Measure for PGL

Program Path	Savings Category	Ex Ante Gross Savings (therms)	Verified Gross RR*	Verified Gross Savings (therms)	NTG†	Verified Net Savings (therms)
Direct Install (DI)	Advanced Thermostat (DI) - Blended‡	256	100%	256	0.90	231
	Advanced Thermostat (DI) - Manual	7,483	100%	7,483	0.90	6,735
	Advanced Thermostat (DI) - Programmable	8,491	100%	8,491	0.90	7,642
	Bathroom Aerator SF (DI)	414	100%	414	1.02	423
	Boiler Pipe Insulation	438	98%	430	0.88	379
	DHW Pipe Insulation	4,848	100%	4,848	0.88	4,266
	Handheld Showerhead (DI) SF	1,159	100%	1,159	1.02	1,182
	HEA Kit	19,605	100%	19,605	0.88	17,252
	Kitchen Aerator SF (DI)	1,201	100%	1,201	1.02	1,225
	Programmable Thermostat (DI)	11,475	100%	11,475	0.88	10,098
	Re-Program Thermostat (DI)	3,162	100%	3,162	0.80	2,529
	Showerhead (DI) SF	931	100%	931	1.02	950
	DI Subtotal		59,462	100%	59,455	
Virtual Home Assessment (VA)	Bathroom Aerator SF (VA)	125	100%	125	1.02	127
	Handheld Showerhead (VA) SF - 1 Showerhead	133	100%	133	1.02	136
	Handheld Showerhead (VA) SF - 2 Showerheads	83	100%	83	1.02	85
	Kitchen Aerator SF (VA)	240	100%	240	1.02	245
	Showerhead (VA) SF - 1 Showerhead	141	100%	141	1.02	144
	Showerhead (VA) SF - 2 Showerheads	81	100%	81	1.02	82
VA Subtotal		803	100%	803		819
Total or Weighted Average		60,265	100%	60,258		53,730

Note: Subtotals may not sum due to rounding.

* 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 website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2022>.

‡ Blended is a term used in the tracking data and TRM to describe thermostats that use a mix of the programmable and manual thermostat baseline types, synonymous with “unknown baseline” in the TRM v10.0.

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

The NSG program includes 18 measures as Table 4-2 shows. The HEA Kits and Advanced Manual Thermostats measures contributed the most savings.

Table 4-2. 2022 Annual Energy Savings by Measure for NSG

Program Category	Savings Category	Ex Ante Gross Savings (therms)	Verified Gross RR*	Verified Gross Savings (therms)	NTG†	Verified Net Savings (therms)
Direct Install (DI)	Advanced Thermostat (DI) - Blended	256	100%	256	0.9	231
	Advanced Thermostat (DI) - Manual	2,973	100%	2,973	0.9	2,676
	Advanced Thermostat (DI) - Programmable	1,927	100%	1,927	0.9	1,734
	Bathroom Aerator SF (DI)	316	100%	316	1.02	322
	Boiler Pipe Insulation	154	98%	152	0.88	134
	DHW Pipe Insulation	2,418	100%	2,418	0.88	2,128
	Handheld Showerhead (DI) SF	286	100%	286	1.02	292
	HEA Kit	5,837	100%	5,837	0.88	5,137
	Kitchen Aerator (DI) SF	279	100%	279	1.02	285
	Programmable Thermostat (DI)	1,680	100%	1,680	0.88	1,479
	Re-Program Thermostat (DI)	870	100%	870	0.8	696
	Showerhead (DI) SF	498	100%	498	1.02	508
	DI subtotal		17,494	100%	17,493	
Virtual Home Assessment (VA)	Bathroom Aerator SF (VA)	94	100%	94	1.02	96
	Handheld Showerhead (VA) SF - 1 Showerhead	76	100%	76	1.02	77
	Handheld Showerhead (VA) SF - 2 Showerheads	70	100%	70	1.02	72
	Kitchen Aerator SF (VA)	90	100%	90	1.02	92
	Showerhead (VA) SF - 1 Showerhead	65	100%	65	1.02	67
	Showerhead (VA) SF - 2 Showerheads	34	100%	34	1.02	34
	VA Subtotal		429	100%	429	
Total or Weighted Average		17,923	100%	17,922		16,058

Note: Subtotals may not sum due to rounding.

* 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 website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2022>.

Source: North Shore Gas tracking data and Guidehouse team analysis

5. Impact Analysis Findings and Recommendations

5.1 Impact Parameter Estimates

Table 5-1 shows the unit therms savings and realization rate (RR) findings by measure from the evaluation team’s review. The RR 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 an RR above or below 100%. 5.3 Appendix A provides a description of the impact analysis methodology.

Table 5-1. Verified Gross Savings Parameters

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	RR	Data Source(s)
Advanced Thermostat (DI) - Blended	Each	85.425	85.425	100%	Illinois TRM, v10.0,† Section 5.3.16MMDB, IC Calculator
Advanced Thermostat (DI) - Manual	Each	102.51	102.51	100%	Illinois TRM, v10.0, Section 5.3.16, MMDB, IC Calculator
Advanced Thermostat (DI) - Programmable	Each	71.355	71.355	100%	Illinois TRM, v10.0, Section 5.3.16, MMDB, IC Calculator
Bathroom Aerator SF (DI)	Each	1.013	1.013	100%	Illinois TRM, v10.0, Section 5.4.4, MMDB, IC Calculator
Bathroom Aerator SF (VA)	Each	0.832	0.832	100%	Illinois TRM, v10.0, Section 5.4.4, MMDB, IC Calculator
Boiler Pipe Insulation	Linear Feet	0.712 or 0.748	0.712 or 0.748 or 1.19 or 1.50 or 2.24 or 4.49	Varies	Illinois TRM, v10.0, Section 5.3.2, MMDB and PTD*, IC Calculator
DHW Pipe Insulation	Linear Feet	2.016 or 2.12	2.016 or 2.12	100%	Illinois TRM, v10.0, Section 5.4.1, MMDB and PTD, IC Calculator
Handheld Showerhead (DI) SF	Each	3.07	3.07	100%	Illinois TRM, v10.0, Section 5.4.5, MMDB, IC Calculator
Handheld Showerhead (VA) SF - 1 Showerhead	Each	2.52	2.52	100%	Illinois TRM, v10.0, Section 5.4.5, MMDB, IC Calculator
Handheld Showerhead (VA) SF - 2 Showerheads	Each	2.60	2.60	100%	Illinois TRM, v10.0, Section 5.4.5, MMDB, IC Calculator
HEA Kit (Electric heat, Gas DHW)	Each	3.97	3.97	100%	Illinois TRM, v10.0, Section 5.4.9 & 5.6.1, 4.8.16, MMDB, IC Calculator, and PTD

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	RR	Data Source(s)
HEA Kit (Gas heat, Electric DHW)	Each	8.93	8.93	100%	Illinois TRM, v10.0, Section 5.4.9 & 5.6.1, 4.8.16, MMDB, IC Calculator, and PTD
HEA Kit (Gas heat, Gas DHW)	Each	12.91	12.91	100%	Illinois TRM, v10.0, Section 5.4.9 & 5.6.1, 4.8.16 MMDB, IC Calculator, and PTD
Kitchen Aerator SF (DI)	Each	9.31	9.31	100%	Illinois TRM, v10.0, Section 5.4.4, MMDB, IC Calculator
Kitchen Aerator SF (VA)	Each	7.50	7.50	100%	Illinois TRM, v10.0, Section 5.4.4, MMDB, IC Calculator
Programmable Thermostat (DI) – Furnace	Each	62.31	62.31	100%	Illinois TRM, v10.0, Section 5.3.11, MMDB, and PTD, IC Calculator
Programmable Thermostat (DI) – Boiler	Each	122.59	122.59	100%	Illinois TRM, v10.0, Section 5.3.11, MMDB, IC Calculator, and PTD
Re-Program Thermostat (DI) – Furnace	Each	62.31	62.31	100%	Illinois TRM, v10.0, Section 5.3.11, MMDB, IC Calculator, and PTD
Re-Program Thermostat (DI) – Boiler	Each	122.59	122.59	100%	Illinois TRM, v10.0, Section 5.3.11, MMDB, IC Calculator, and PTD
Showerhead (DI) SF	Each	3.07	3.07	100%	Illinois TRM, v10.0, Section 5.4.5, IC Calculator
Showerhead (VA) SF - 1 Showerhead	Each	2.52	2.52	100%	Illinois TRM, v10.0, Section 5.4.5, IC Calculator
Showerhead (VA) SF - 2 Showerheads	Each	2.60	2.60	100%	Illinois TRM, v10.0, Section 5.4.5, IC Calculator

Note: MMDB – Master Measure Database (which is the measure calculator received from program administrator). Evaluation referenced the implementer (IC) Calculators.

* Program tracking data (PTD) provided by PGL and NSG, extracted on January 30, 2022.

† Illinois Statewide Technical Reference Manual (IL-TRM) version 10.0 from <http://www.ilsag.info/technical-reference-manual.html>.

Source: Guidehouse evaluation team analysis

5.2 Findings and Recommendations

Finding 1. The evaluation team found five instances (MEA-2022.08.05-382009, MEA-2022.08.05-382010, MEA-2022.04.14-321569, MEA-2022.08.05-382011, MEA-2022.04.19-324318) of boiler pipe insulation ex ante per-unit savings that did not align with the approved calculator.

Recommendation 1. Ensure quantities in tracking data accurately reflect the number of feet installed for each project. Per-unit savings should match workbook calculators provided to and approved by Guidehouse.

Finding 2. HEA Kit savings are determined by heating and domestic hot water (DHW) fuel types. Existing space heating system type is provided in the tracking data; however, DHW fuel type is not recorded. The evaluation team leveraged ComEd joint data to establish DHW fuel type and calculate the verified savings for each kit. All projects were found in the ComEd data except one, MEA-2022.06.30-361432. Guidehouse assumed this kit was installed with gas heating and gas DHW systems.

Recommendation 2. Track DHW fuel type to determine HEA Kit savings. Guidehouse acknowledge that as of 2023, the program began tracking DHW fuel type and other inputs to calculate savings.

5.3 Historical RR and NTG Values

Table 5-2. shows the historical gross RR and NTG values for the HEJ program. Beginning in 2018, the NTG values shown are a savings weighted average from the various measures and deemed NTGs that vary by measure and program path.

Table 5-2. Historical RR and NTG Values

Program Year	PGL Verified Gross RR	NSG Verified Gross RR	PGL NTG	NSG NTG
2018	107%	110%	0.84	0.86
2019	98%	98%	0.89	0.91
2020	99%	100%	0.89	0.91
2021	100%	100%	0.88	0.90
2022	100%	100%	0.89	0.90

Source: Guidehouse evaluation research

I.

Appendix A. Impact Analysis Methodology

Guidehouse verified unit savings by using the impact algorithms in IL-TRM v10.0.¹ We reviewed the ex ante savings calculation approach from the MMDB and Resource Innovations calculation file.² In most cases, the TRM algorithms were correctly applied in the MMDB, but where evaluation found the need to adjust, we did so accordingly with the TRM guidelines.

Guidehouse calculated verified net energy savings by multiplying the verified gross savings estimates by the NTG ratio. In 2022, the NTG estimates used to calculate the net verified savings were based on past evaluation research and defined by a consensus process through the Illinois Stakeholder Advisory Group (SAG).

¹ Illinois Statewide Technical Reference Manual (IL-TRM) version 10.0 from <http://www.ilsag.info/technical-reference-manual.html>

² Franklin Energy Master Measure Database (MMDB - Res and MF, provided February 08, 2022). Excel file 2022_SFHU_Resource Innovations_Savings Calculator.

Appendix B. Program Specific Inputs for the Illinois TRC

Table B-1 and Table B-2 show the TRC cost-effectiveness analysis inputs available at the time of producing this impact evaluation report. Currently, additional required cost data (e.g., measure costs, program-level incentive and non-incentive costs) are not included in these tables and will be provided to the evaluation team later. Guidehouse will include annual and lifetime water savings and greenhouse gas reductions in the end of year summary report.

Table B-1. Verified Cost-Effectiveness Inputs – PGL

Program Path	Savings Category	Units	Quantity	Effective Useful Life	Ex Ante Gross Savings (therms)	Verified Gross Savings (therms)	Verified Net Savings (therms)
Direct Install	Advanced Thermostat	Each	195	11.0	16,231	16,231	14,608
	Boiler Pipe Insulation	Linear Feet	604	15.0	438	430	379
	Domestic Hot Water Pipe Insulation	Linear Feet	2,392	15.0	4,848	4,848	4,266
	HEA Kit	Each	1,528	12.5	19,605	19,605	17,252
	Low Flow Faucet Aerator	Linear Feet	538	10.0	1,615	1,615	1,648
	Low Flow Showerhead	Linear Feet	680	10.0	2,090	2,090	2,132
	Programmable Thermostat	Each	159	8.0	11,475	11,475	10,098
	Re-Program Thermostat	Each	45	2.0	3,162	3,162	2,529
Virtual Home Assessment	Low Flow Faucet Aerator	Each	182	10.0	365	365	372
	Low Flow Showerhead	Each	172	10.0	438	438	447
Total or Weighted Average			6,495	12.8	60,265	60,258	53,730

Source: Peoples Gas tracking data and Guidehouse evaluation team analysis

Table B-2. Verified Cost-Effectiveness Inputs – NSG

Program Path	Savings Category	Units	Quantity	Effective Useful Life	Ex Ante Gross Savings (therms)	Verified Gross Savings (therms)	Verified Net Savings (therms)
Direct Install	Advanced Thermostat	Each	60	11.0	5,156	5,156	4,640
	Boiler Pipe Insulation	Linear Feet	213	15.0	154	152	134
	Domestic Hot Water Pipe Insulation	Linear Feet	1,191	15.0	2,418	2,418	2,128
	HEA Kit	Each	456	12.5	5,837	5,837	5,137
	Low Flow Faucet Aerator	Linear Feet	342	10.0	595	595	607
	Low Flow Showerhead	Linear Feet	255	10.0	784	784	799
	Programmable Thermostat	Each	26	8.0	1,680	1,680	1,479
	Re-Program Thermostat	Each	13	2.0	870	870	696
Virtual Home Assessment	Low Flow Faucet Aerator	Each	125	10.0	184	184	188
	Low Flow Showerhead	Each	96	10.0	245	245	250
Total or Weighted Average			2,777	12.9	17,923	17,922	16,058

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