

C&I and Public Sector Prescriptive Program Impact Evaluation Report

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

Prepared for:

Peoples Gas and North Shore Gas

FINAL

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Prepared by:

Sophie Berne Guidehouse



Submitted to:

Peoples Gas North Shore Gas 200 East Randolph Street Chicago, IL 60601

Submitted by:

Guidehouse 150 N. Riverside Plaza, Suite 2100 Chicago, IL 60606

Contact:

Ed BalbisStu SloteLaura Agapay-ReadPartnerDirectorAssociate Director561.644.9407802.526.5113312.583.4178

ebalbis@guidehouse.com stu.slote@guidehouse.com laura.agapay.read@guidehouse.com

Charles Ampong Associate Director 608.446.3172 charles.ampong@guidehouse.com

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1. Introduction

This report presents the results of the impact evaluation of the Peoples Gas (PGL) and North Shore Gas (NSG) 2023 Commercial and Industrial (C&I) and Public Sector Prescriptive programs. It presents a summary of the energy impacts for the total program and broken out by relevant measure and program structure details. The appendix presents the impact analysis methodology. Program year (PY) 2023 covers January 1, 2023 through December 31, 2023.

2. Program Description

The PGL and NSG comprehensive business programs combine offerings into program paths and allow eligible C&I and Public Sector customers access to any of the paths¹ based on the needs of each customer. This report covers evaluation activities for measures installed and natural gas savings realized through the Prescriptive Rebate path, referred to as the Prescriptive program in this report. The program provides standardized incentives to cover part of the measure costs for existing commercial, industrial, and public sector buildings. The incentives focus on energy efficient measures such as heating systems, water heating systems, pipe and storage tank insulation, steam traps, and food service equipment.

The PGL program had 34 participants (29 C&I and 5 public sector participants) in 2023 and completed 160 projects (38 C&I and 122 public sector projects), as shown in Table 2-1.

¹ The comprehensive business program paths include – Energy Jumpstart (direct installation of free energy saving products), Engineering Studies and staffing assistance, Prescriptive Rebates, Custom Rebates, and Gas Optimization. Only prescriptive program is included in this report. The custom and gas optimization projects are evaluated and reported separately.



Table 2-1. 2023 Volumetric Summary for PGL

Participation	Count
C&I Sector	
Participants *	29
Installed Projects †	38
Measure Types Installed ‡	9
Public Sector	
Participants *	5
Installed Projects †	122
Measure Types Installed ‡	5
Program Total	
Participants *	34
Installed Projects †	160
Measure Types Installed ‡	11

^{*} Participants are defined as the distinct count of Account Name.

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. 2023 Installed Measure Quantities for PGL

Program Category	Measure	Quantity Unit	Installed Quantity
	Boiler Chemical Descaling	MBH	75,000
	Boiler Tune Up - Process	MBH	172,928
	Boiler Tune Up - Space Heating	MBH	11,800
	Draft Controls	MBH	45,186
C&I	Linkageless Boiler Controls for Space Heating	MBH	45,186
	Prescriptive Change Steam Trap*	Projects	13
	Steam Traps - HVAC Repair/Rep	Each	735
	Steam Traps - Industrial Rep	Projects	62
	Storage Water Heater (Large)	MBH	199
	Boiler Tune Up - Space Heating	MBH	604,821
	Linkageless Boiler Controls for Space Heating	MBH	12,556
Public	Pipe Insulation	Ln Ft.	599
	Steam Traps - HVAC Repair/Rep	Each	977
	Wireless Pneumatic Thermostat	Sq Ft	219,511

Note: Measure in this table aligns with TRM measure naming conventions.

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

[†] Installed Projects are the distinct count of Work Order IDs with non-zero therms savings.

[‡] Measure Types Installed are the distinct count of TRM measure names with non-zero therms savings.

^{*} Prescriptive Change projects have savings capped at 20 percent of gas usage.



The NSG program had 14 participants (8 C&I and 6 public sector participants) in 2023 and completed 21 projects (11 C&I and 10 public sector projects), as shown in Table 2-3.

Table 2-3. 2023 Volumetric Summary for NSG

Participation	Count
C&I Sector	
Participants *	8
Installed Projects †	11
Measure Types Installed ‡	6
Public Sector	
Participants *	6
Installed Projects †	10
Measure Types Installed ‡	12
Program Total	
Participants *	14
Installed Projects †	21
Measure Types Installed ‡	17

^{*} Participants are defined as the distinct count of Account Name.

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

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[†] Installed Projects are the distinct count of Project IDs with non-zero therms savings.

[‡] Measure Types Installed are the distinct count of TRM measure names with non-zero therms savings



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

Table 2-4. 2023 Installed Measure Quantities for NSG

Program Category	Measure	Quantity Unit	Installed Quantity
C&I	Boiler Tune Up - Process	MBH	56,455
	Prescriptive Change Steam Trap	Projects	2
	Process Stack Economizer - Conventional - Steam Boiler	MBH	62,766
CαI	Steam Traps - HVAC Repair/Rep	Each	226
	Steam Traps - Industrial Rep	Projects	17
	Storage Water Heater	Each	3,200
	Boiler Tune Up - Process	MBH	234,291
	Boiler Tune Up - Space Heating	MBH	13,600
	DCV - Kitchen	HP	6
	Double Rack Oven	Each	1
	Draft Controls	MBH	3,000
Public	Energy Star Dishwasher	Each	2
Public	Energy Star Fryer	Each	1
	Faucet Aerator - Healthcare	Each	5
	High Efficiency Boiler	MBH	8,000
	High Efficiency Pre-Rinse Spray Valve	Each	2
	Linkageless Boiler Controls for Space Heating	MBH	4,800
	Pipe Insulation	Ln Ft.	855

Note: Measure in this table aligns with TRM measure naming conventions.

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

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3. Program Savings Detail

Table 3-1 summarizes the energy savings the PGL Prescriptive Program achieved by path in 2023. Projects in disadvantaged communities (DAC) designated sites have a verified net-to-gross ratio (NTG) of 1.00.

Table 3-1. 2023 Annual Energy Savings Summary for PGL

DAC Category	Program Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG+	Verified Net Savings (Therms)
	C&I	2,139,856	100%	2,139,856	0.91	1,947,269
Non-DAC	Public	981,643	100%	981,759	Thermostats = 0.93 All Other = 0.92	903,435
DAC	Public	107,472	100%	107,472	1.00	107,472
Total		3,228,971	100%	3,229,087		2,958,176

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

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

Table 3-2 summarizes the energy savings the NSG Prescriptive Program achieved by path in 2023. Projects in DAC designated sites have a verified NTG of 1.00.

Table 3-2. 2023 Annual Energy Savings Summary for NSG

DAC Category	Program Category	Ex Ante Gross Savings (Therms)	Verified Gross RR	Verified Gross Savings (Therms)	NTG	Verified Net Savings (Therms)
	C&I	637,013	100%	637,013	0.91	579,682
Non-DAC	Public	270,370	100%	270,176	Thermostats = 0.93 All Other = 0.92	248,562
DAC	C&I	7,752	100%	7,752	1.00	7,752
Total		915,136	100%	914,942		835,996

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

[†] A deemed value. Available on the SAG web site: https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/. Projects in disadvantaged communities designated sides have a NTG of 1.0.



4. Program Savings by Measure

The PGL program includes 11 unique TRM measures across the C&I and public sector program paths in both DAC and non-DAC designated sites, as shown in Table 4-1. The Steam Trap and Boiler Tune Up measures contributed the most savings.

Table 4-1. 2023 Annual Energy Savings by Measure for PGL

DAC Category	Program Category	Savings Category	Ex Ante , Gross Savings (Therms)	Verified Gross RR	Verified Gross Savings (Therms)	NTG	Verified Net Savings (Therms)
	•	Boiler Chemical Descaling	42,734	100%	42,734	0.91	38,888
		Boiler Tune Up - Process	176,860	100%	176,860	0.91	160,942
		Boiler Tune Up - Space Heating	4,908	100%	4,908	0.91	4,466
		Draft Controls	6,602	100%	6,602	0.91	6,008
	C&I	Linkageless Boiler Controls for Space Heating	25,086	100%	25,086	0.91	22,829
		Prescriptive Change Steam Trap	144,065	100%	144,065	0.91	131,099
		Steam Traps - HVAC Repair/Rep	573,286	100%	573,286	0.91	521,691
Non-		Steam Traps - Industrial Rep	1,166,209	100%	1,166,209	0.91	1,061,250
Disadvantaged Communities		Storage Water Heater (Large)	107	100%	107	0.91	97
	C&I Subtotal		2,139,856	100%	2,139,856	0.91	1,947,269
		Boiler Tune Up - Space Heating	254,965	100%	255,080	0.92	234,674
		Linkageless Boiler Controls for Space Heating	8,250	100%	8,250	0.92	7,590
	Public	Pipe Insulation	2,563	100%	2,563	0.92	2,358
		Steam Traps - HVAC Repair/Rep	694,184	100%	694,184	0.92	638,649
		Wireless Pneumatic Thermostat	21,683	100%	21,683	0.93	20,165
	Public Subtot	al	981,643	100%	981,759	0.92	903,435
Non-DAC Subt	Non-DAC Subtotal		3,121,499	100%	3,121,615		2,850,704
Disadvantaged	Public	Boiler Tune Up - Space Heating	39,614	100%	39,614	1.00	39,614
Communities	i dollo	Steam Traps - HVAC Repair/Rep	67,858	100%	67,858	1.00	67,858
DAC Subtotal			107,472	100%	107,472	1.00	107,472
		Total	3,228,971	100%	3,229,087		2,958,176

Note: Measure in this table aligns with TRM measure naming conventions. Source: Peoples Gas tracking data and Guidehouse evaluation team analysis.

The NSG program includes 17 unique TRM measures across the C&I and public sector program paths in both DAC and non-DAC designated sites, as shown in Table 4-2. The Steam Trap and Boiler Tune Up measures contributed the most savings.



Table 4-2. 2023 Annual Energy Savings by Measure for NSG

DAC Category	Program Category	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR	Verified Gross Savings (Therms)	NTG	Verified Net Savings (Therms)
	C&I	Boiler Tune Up - Process	57,739	100%	57,739	0.91	52,542
		Prescriptive Change Steam Trap	105,313	100%	105,313	0.91	95,835
		Process Stack Economizer - Conventional - Steam Boiler	66,395	100%	66,395	0.91	60,419
		Steam Traps - HVAC Repair/Rep	176,276	100%	176,276	0.91	160,411
		Steam Traps - Industrial Rep	231,291	100%	231,291	0.91	210,475
	C&I Subtotal		637,013	100%	637,013	0.91	579,682
	Public	Boiler Tune Up - Process	239,618	100%	239,618	0.92	220,448
		Boiler Tune Up - Space Heating	6,636	100%	6,636	0.92	6,105
Non-		DCV - Kitchen	4,644	100%	4,644	0.92	4,272
Disadvantaged		Double Rack Oven	1,931	100%	1,931	0.92	1,776
Communities		Draft Controls	519	100%	519	0.92	477
		Energy Star Dishwasher	533	64%	339	0.92	312
		Energy Star Fryer	513	100%	512	0.92	471
		Faucet Aerator - Healthcare	328	100%	328	0.92	301
		High Efficiency Boiler	10,121	100%	10,121	0.92	9,311
		High Efficiency Pre-Rinse Spray Valve	102	100%	102	0.92	94
		Linkageless Boiler Controls for Space Heating	3,154	100%	3,154	0.92	2,901
		Pipe Insulation	2,273	100%	2,273	0.92	2,091
	Public Subtota	nl .	270,370	100%	270,176	0.92	248,562
Non-DAC Subto	otal		907,383	100%	907,189		828,244
Disadvantaged Communities		Storage Water Heater	7,752	100%	7,752	1.00	7,752
		Total	915,136	100%	914,942		835,996

Note: Measure in this table aligns with TRM measure naming conventions. 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 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 Table 5-1 are findings and recommendations, including a discussion of all measures with realization rates above or below 100 percent. Appendix A provides a description of the impact analysis methodology.

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	RR	Data Source(s)
Boiler Chemical Descaling	MBH	Varies	Varies	100%	IL TRM†, Section 4.4.49
Boiler Tune Up - Process	MBH	Varies	Varies	100%	IL TRM, Section 4.4.3
Boiler Tune Up - Space Heating	MBH	Varies	Varies	100%	IL TRM, Section 4.4.2
DCV - Kitchen	HP	774	774	100%	IL TRM, Section 4.2.16
Double Rack Oven	Each	1930.5	1930.5	100%	IL TRM, Section 4.2.18
Draft Controls	MBH	Varies	Varies	100%	IL TRM, Section 4.4.23
Energy Star Dishwasher	Each	Varies	Varies	64%	IL TRM, Section 4.2.6
Energy Star Fryer	Each	512.5	512.5	100%	IL TRM, Section 4.2.7
Faucet Aerator - Healthcare	Each	Varies	Varies	100%	IL TRM, Section 4.3.2
High Efficiency Boiler	MBH	Varies	Varies	100%	IL TRM, Section 4.4.10
High Efficiency Pre-Rinse Spray Valve	Each	Varies	Varies	100%	IL TRM, Section 4.2.11
Linkageless Boiler Controls for Space Heating	MBH	Varies	Varies	100%	IL TRM, Section 4.4.21
Pipe Insulation	Ln Ft.	Varies	Varies	100%	IL TRM, Section 4.4.14
Prescriptive Change Steam Trap	Project	Custom Calculation	Custom Calculation	100%	Tracking Data*
Process Stack Economizer - Conventional - Steam Boiler	MBH	Varies	Varies	100%	IL TRM, Section 4.4.29
Steam Traps - HVAC Repair/Rep	Each	Varies	Varies	100%	IL TRM, Section 4.4.16
Steam Traps - Industrial Rep	Project	Varies	Varies	100%	IL TRM, Section 4.4.16
Storage Water Heater‡	Each	Varies	Varies	100%	IL TRM, Section 4.3.1
Wireless Pneumatic Thermostat	Sq Ft	Varies	Varies	100%	2023 MMDB - C&I and SB§

Table 5-1. 2023 Verified Gross Savings Parameters

Note: Measure in this table aligns with TRM measure naming conventions.

5.2 Findings and Recommendations

The following are findings and recommendations from the evaluation team, all findings are minor.

Finding 1. Ex ante net savings provided in the tracking data for some measures do not match the expected values provided in the MMDB file for all Energy Star Dishwasher measures and the Boiler Tune Up – Space Heating measures under WO-4296990 and WO-4297381. Verified savings align with the values in the MMDB calculator.

^{*} Program Tracking Data provided by Peoples Gas and North Shore Gas; extract dated February 2, 2024.

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

[‡] Storage Water Heater in this table represents the Storage Water Heater (Large) measure from PGL program and Storage Water Heater measure from NSG program.

[§] PY2023 C&I and Small Business Master Measure Database calculator.



Recommendation 1. Ensure ex ante net savings in the tracking data aligns with the savings and calculations provided in the MMDB and the respective deemed NTG value. Also, ensure the tracking data reflects all information available for the projects.

Finding 2. The evaluation team applied a NTG value of 1.00 to calculate the verified net therms values for all measures in DAC eligible designated sites. The ex ante net savings values provided in the program tracking data for the DAC measures (Boiler Tune Up – Space Heating and Steam Traps – HVAC Repair/Rep for the public sector path and Storage Water Heater for the C&I path) do not reflect a NTG value of 1.00, the evaluation team replicated ex ante gross savings using the applicable non-DAC program value. This does not affect the realization rates of these measures.

Recommendation 2. Ensure the tracking data provides ex ante gross therms savings for all measures.

Finding 3. The evaluation team matched incentive amounts provided in the tracking data to incentive amounts in the MMDB to identify key measure information that was missing from the tracking data. This effort included Dishwasher Type for the Energy Star Dishwasher measure and Size for the Pipe Insulation measure, which did not affect the realization rates of these measures.

Recommendation 3. Ensure all information needed to calculate a measure's savings is provided to the evaluation team in the tracking data. Since the evaluation team relied on tracking data incentive amounts, ensure that these values were entered correctly.

Finding 4. The evaluation team utilized a provided supplemental file to determine if a given project in the tracking data was in a DAC or non-DAC designated site. The evaluation team found that WO-4746774 is present in this supplemental file but cannot be found in the tracking data. It was not included in the analysis. The evaluation team also observed the Boiler Tune Up – Space Heating measure in WO-4297357 with a quantity of 2,000 MBH had a net therms savings value of 897.81, rounded, in the tracking data but 871.33, rounded, in the supplemental file. The former value from the tracking data was used in the analysis.

Recommendation 4. Ensure supplemental information aligns with reported tracking data provided to the evaluation team for analysis.



Appendix A. Impact Analysis Methodology

Guidehouse determined verified gross savings for each program measure by:

- Using the NTG values defined on the Illinois SAG website to extract ex ante gross savings from the net reported values in the tracking data. All verified savings of measures in a DAC designated site received a NTG value of 1.00 regardless of the program path.
- 2. Reviewing the savings algorithm inputs in the MMDB for agreement with the IL TRM v11.0 or evaluation research for non-deemed measures or custom inputs.
- 3. Validating that the savings algorithm was applied correctly.
- 4. Cross-checking per-unit savings values in the tracking data with the verified values in the MMDB or Guidehouse's calculations if the MMDB did not agree with the IL TRM v11.0.
- 5. Multiplying the verified per-unit savings value by the quantity reported in the program tracking data to substantiate the type and quantity of measures installed.

Verified gross realization rates are calculated by dividing the verified gross savings by the ex ante gross savings. We calculated verified net energy savings by multiplying the verified gross savings estimates by a deemed net-to-gross ratio (NTG). The 2023 NTG were based on past evaluation research and defined by a consensus process through SAG.² Economically-disadvantaged areas were identified by census track and evaluation used NTG of 1.00 for DAC projects' verified savings, based on Illinois Policy Manual 3.0.³

² A deemed value. Available on the SAG website: https://www.ilsag.info/evaluator-ntg-recommendations-for-2022/

 $^{^3\} https://www.ilsag.info/wp-content/uploads/IL_EE_Policy_Manual_Version_3.0_Final_11-3-2023.pdf$



Appendix B. Program Specific Inputs for the Illinois TRC

Table B-1 and Table B-2 show the Total Resource Cost (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 Table B-1 and Table B-2. They 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 – PGL

DAC Category	Program Category	Savings Category	Units	Quantity	EUL*	Ex Ante Gross Savings (Therms)	Verified Gross Savings (Therms)	Verified Net Savings (Therms)
		Boiler Chemical Descaling	MBH	75,000	6.0	42,734	42,734	38,888
		Boiler Tune Up - Process	MBH	172,928	2.0	176,860	176,860	160,942
		Boiler Tune Up - Space Heating	MBH	11,800	3.0	4,908	4,908	4,466
		Draft Controls	MBH	45,186	15.0	6,602	6,602	6,008
	C&I	Linkageless Boiler Controls for Space Heating	MBH	45,186	20.0	25,086	25,086	22,829
		Prescriptive Change Steam Trap	Project	2,478	6.0	144,065	144,065	131,099
		Steam Traps - HVAC Repair/Rep	Each	735	6.0	573,286	573,286	521,691
Non-DAC		Steam Traps - Industrial Rep	Project	342	6.0	1,166,209	1,166,209	1,061,250
		Storage Water Heater (Large)	MBH	199	15.0	107	107	97
		Boiler Tune Up - Space Heating	MBH	523,635	3.0	254,965	255,080	234,674
		Linkageless Boiler Controls for Space Heating	MBH	12,556	20.0	8,250	8,250	7,590
	Public	Pipe Insulation	Ln Ft.	599	15.0	2,563	2,563	2,358
		Steam Traps - HVAC Repair/Rep	Each	890	6.0	694,184	694,184	638,649
		Wireless Pneumatic Thermostat	Sq Ft	219,511	10.0	21,683	21,683	20,165
DAC	Dublic	Boiler Tune Up - Space Heating	MBH	81,186	3.0	39,614	39,614	39,614
DAC	Public	Steam Traps - HVAC Repair/Rep	Each	87	6.0	67,858	67,858	67,858
Total		LL E SETTING		1,192,318	5.7	3,228,971	3,229,087	2,958,176

Note: Measure in this table aligns with TRM measure naming conventions.

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

^{*} End-of-useful life (measure lifetime)



Table B-2. 2023 Verified Cost Effectiveness Inputs - NSG

DAC Category	Program Category	Savings Category	Units	Quantity	EUL	Ex Ante Gross Savings (Therms)	Verified Gross Savings (Therms)	Verified Net Savings (Therms)
		Boiler Tune Up - Process	MBH	56,455	2.0	57,739	57,739	52,542
		Prescriptive Change Steam Trap	Project	2	6.0	105,313	105,313	95,835
	C&I	Process Stack Economizer - Conventional - Steam Boiler	MBH	62,766	15.0	66,395	66,395	60,419
		Steam Traps - HVAC Repair/Rep	Each	226	6.0	176,276	176,276	160,411
		Steam Traps - Industrial Rep	Project	73	6.0	231,291	231,291	210,475
		Boiler Tune Up - Process	MBH	234,291	2.0	239,618	239,618	220,448
		Boiler Tune Up - Space Heating	MBH	13,600	3.0	6,636	6,636	6,105
Non-DAC		DCV - Kitchen	HP	6	20.0	4,644	4,644	4,272
NOII-DAG		Double Rack Oven	Each	1	12.0	1,931	1,931	1,776
		Draft Controls	MBH	3,000	15.0	519	519	477
		Energy Star Dishwasher*	Each	2	14.3	533	339	312
	Public	Energy Star Fryer	Each	1	12.0	513	512	471
		Faucet Aerator - Healthcare	Each	5	10.0	328	328	301
		High Efficiency Boiler	MBH	8,000	25.0	10,121	10,121	9,311
		High Efficiency Pre-Rinse Spray Valve	Each	2	5.0	102	102	94
		Linkageless Boiler Controls for Space Heating	MBH	4,800	10.0	3,154	3,154	2,901
		Pipe Insulation	Ln Ft.	855	15.0	2,273	2,273	2,091
DAC	C&I	Storage Water Heater	Each	3,200	15.0	7,752	7,752	7,752
Total				387,285	5.8	915,136	914,942	835,996

Note: Measure in this table aligns with TRM measure naming conventions.

^{*} Effective Useful Life (EUL) values differ based on Dishwasher Type. This value represents a weighted average. Source: North Shore Gas tracking data and Guidehouse evaluation team analysis.