

# **C&I and Public Sector Prescriptive Impact Evaluation Report**

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

**Prepared for:**

**Peoples Gas and North Shore Gas  
FINAL**

April 22, 2025

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# Introduction

This report presents the results of the impact evaluation of the Peoples Gas (PGL) and North Shore Gas (NSG) 2024 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 2024 covers January 1, 2024 through December 31, 2024.

# 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 paths<sup>1</sup> 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 space heating systems, water heating systems, pipe and storage tank insulation, steam traps, and food service equipment.

The program had 43 participants (36 C&I and 7 public sector participants) in 2024 and completed 152 projects (42 C&I and 110 public sector projects), as shown in Table 1.

**Table 1. 2024 Volumetric Summary for PGL**

Participation	Total
<b>C&amp;I Sector</b>	
Participants *	36
Installed Projects †	42
Measure Types Installed ‡	11
<b>Public Sector</b>	
Participants *	7
Installed Projects †	110
Measure Types Installed ‡	12
<b>Program 2024 Total</b>	
Participants *	43
Installed Projects †	152
Measure Types Installed ‡	18

\* Participants are defined as the distinct count of Account Name.  
 † Installed Projects are defined as the distinct count of Work Order IDs, not including Steam Trap Test and Bonus measures.  
 ‡ Measure Types Installed are the distinct count of verified measure names, not including Steam Trap Test and Bonus measures.  
 Source: Peoples Gas tracking data.

<sup>1</sup> 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 projects are included in this report. The custom and gas optimization projects are evaluated and reported separately. Energy Jumpstart is evaluated and reported in the residential sector. Engineering Studies and staffing assistance do not generate savings, so they are not included in a report.

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

**Table 2. 2024 Installed Measure Quantities for PGL**

Program Category	Program Path	Measure	Quantity Unit	Installed Quantity
C&I	Prescriptive	Boiler Tune Up - Process	MBH	271,827
C&I	Prescriptive	Boiler Tune Up - Space Heating	MBH	25,106
C&I	Prescriptive	Dock Door Seals	Each	4
C&I	Prescriptive	Draft Controls	MBH	62,604
C&I	Prescriptive	Infrared Heater	MBH	200
C&I	Prescriptive	Linkageless Boiler Controls for Space Heating	MBH	99,186
C&I	Prescriptive	Prescriptive Change Other	Each	2,700
C&I	Prescriptive	Prescriptive Change Steam Trap	Projects	11
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep High	Each	12
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep Low	Each	183
C&I	Prescriptive	Steam Traps - Industrial Rep	Projects	70
Public	Prescriptive	Boiler Tune Up - Space Heating	MBH	238,764
Public	Prescriptive	Business Furnace RTU Tune-Up	MBH	2,400
Public	Prescriptive	Demand Controlled Ventilation	Sq Ft	27,630
Public	Prescriptive	High Efficiency Boiler	MBH	17,725
Public	Prescriptive	Prescriptive Change Other	Each	2
Public	Prescriptive	Prescriptive Change Steam Trap	Projects	4
Public	Prescriptive	Steam Pipe Insulation	Ln Ft.	8,993
Public	Prescriptive	Steam Pipe Insulation - Fitting	Ln Ft.	1,642
Public	Prescriptive	Steam Pipe Insulation - Valve	Ln Ft.	423
Public	Prescriptive	Steam Traps - HVAC Repair/Rep Low	Each	867
Public	Prescriptive	Steam Traps - Industrial Rep	Projects	6
Public	Prescriptive	Storage Water Heater (Large)	MBH	1,967.8

Source: Peoples Gas tracking data and evaluation team analysis.

The NSG program had 10 participants (5 C&I and 5 public sector participants) in 2024 and completed 46 projects (6 C&I and 40 public sector projects), as shown in Table 3.

**Table 3. 2024 Volumetric Summary for NSG**

Participation	Total
<b>C&amp;I Sector</b>	
Participants *	5
Installed Projects †	6
Measure Types Installed ‡	4
<b>Public Sector</b>	
Participants *	5
Installed Projects †	40
Measure Types Installed ‡	3
<b>Program 2024 Total</b>	
Participants *	10
Installed Projects †	46
Measure Types Installed ‡	5

\* Participants are defined as the distinct count of Account Name.

† Installed Projects are defined as the distinct count of Work Order IDs, not including Steam Trap Test and Bonus measures.

‡ Measure Types Installed are the distinct count of verified measure names, not including Steam Trap Test and Bonus measures.  
 Source: North Shore Gas tracking data.

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

**Table 4. 2024 Installed Measure Quantities for NSG**

Program Category	Program Path	Measure	Quantity Unit	Installed Quantity
C&I	Prescriptive	Boiler Tune Up - Process	MBH	124,170
C&I	Prescriptive	Prescriptive Change Steam Trap	Projects	1
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep Low	Each	281
C&I	Prescriptive	Steam Traps - Industrial Rep	Projects	6
Public	Prescriptive	Boiler Tune Up - Process	MBH	5,490
Public	Prescriptive	Boiler Tune Up - Space Heating	MBH	217,916
Public	Prescriptive	Steam Traps - HVAC Repair/Rep Low	Each	136

Source: North Shore Gas tracking data and evaluation team analysis

## Program Savings Detail

Table 5 summarizes the energy savings the PGL Prescriptive Program achieved in 2024. Projects in disadvantaged communities (DAC) designated sites have a verified net-to-gross ratio (NTG) of 1.00.

**Table 5. 2024 Annual Energy Savings Summary for PGL**

Program Category	Program Path	DAC Project	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
C&I	Prescriptive	FALSE	1,126,738	1.00	1,126,740	0.91	1,025,334
C&I	Prescriptive	TRUE	639,646	1.00	639,646	1.00	639,646
Public	Prescriptive	FALSE	361,187	1.00	361,363	0.92	332,454
Public	Prescriptive	TRUE	600,424	1.00	597,783	1.00	597,783
<b>Total</b>			<b>2,727,994</b>	<b>1.00</b>	<b>2,725,533</b>		<b>2,595,217</b>

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

† NTG is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>. DAC designated sites based on census tract and consumption data use an NTG of 1.00.

Source: Evaluation team analysis.

Table 6 summarizes the energy savings the NSG Prescriptive Program achieved in 2024. Projects in DAC designated sites have a verified NTG of 1.00 if they meet the size criteria.

**Table 6. 2024 Annual Energy Savings Summary for NSG**

Program Category	Program Path	DAC Project	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
C&I	Prescriptive	FALSE	573,535	1.00	573,535	0.91	521,917
C&I	Prescriptive	TRUE	236,708	1.00	236,708	1.00	236,708
Public	Prescriptive	FALSE	25,763	1.00	25,763	0.92	23,702

Program Category	Program Path	DAC Project	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
Public	Prescriptive	TRUE	192,220	1.00	192,220	1.00	192,220
<b>Total</b>			<b>1,028,227</b>	<b>1.00</b>	<b>1,028,227</b>		<b>974,548</b>

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

† NTG is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>. DAC designated sites based on census tract and consumption data use an NTG of 1.00.

Source: Evaluation team analysis.

## Program Savings by Measure

The PGL program includes 18 measures, as shown in Table 7. The Boiler Tune Up and Steam Trap measures contributed the most savings.

**Table 7. 2024 Annual Energy Savings by Measure for PGL**

Program Category	Program Path	DAC Project	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
C&I	Prescriptive	FALSE	Boiler Tune Up - Process	250,191	1.00	250,191	0.91	227,674
C&I	Prescriptive	FALSE	Boiler Tune Up - Space Heating	10,351	1.00	10,351	0.91	9,420
C&I	Prescriptive	FALSE	Draft Controls	9,146	1.00	9,146	0.91	8,323
C&I	Prescriptive	FALSE	Linkageless Boiler Controls for Space Heating	55,761	1.00	55,764	0.91	50,745
C&I	Prescriptive	FALSE	Prescriptive Change Steam Trap	25,984	1.00	25,984	0.91	23,646
C&I	Prescriptive	FALSE	Steam Traps - HVAC Repair/Rep High	4,426	1.00	4,426	0.91	4,028
C&I	Prescriptive	FALSE	Steam Traps - HVAC Repair/Rep Low	130,257	1.00	130,257	0.91	118,534
C&I	Prescriptive	FALSE	Steam Traps - Industrial Rep	640,621	1.00	640,621	0.91	582,965
Public	Prescriptive	FALSE	Boiler Tune Up - Space Heating	50,723	1.00	50,900	0.92	46,828
Public	Prescriptive	FALSE	High Efficiency Boiler	15,034	1.00	15,034	0.92	13,831
Public	Prescriptive	FALSE	Prescriptive Change Steam Trap	5,312	1.00	5,312	0.92	4,887
Public	Prescriptive	FALSE	Steam Pipe Insulation	34,110	1.00	34,110	0.92	31,381
Public	Prescriptive	FALSE	Steam Pipe Insulation - Fitting	3,590	1.00	3,590	0.92	3,303
Public	Prescriptive	FALSE	Steam Pipe Insulation - Valve	1,861	1.00	1,861	0.92	1,713
Public	Prescriptive	FALSE	Steam Traps - HVAC Repair/Rep Low	238,144	1.00	238,144	0.92	219,092
Public	Prescriptive	FALSE	Steam Traps - Industrial Rep	11,621	1.00	11,621	0.92	10,691
Public	Prescriptive	FALSE	Storage Water Heater (Large)	792	1.00	792	0.92	729
<b>Non-DAC Subtotal</b>				<b>1,487,924</b>	<b>1.00</b>	<b>1,488,104</b>		<b>1,357,788</b>
C&I	Prescriptive	TRUE	Boiler Tune Up - Process	27,816	1.00	27,816	1.00	27,816
C&I	Prescriptive	TRUE	Dock Door Seals	940	1.00	940	1.00	940
C&I	Prescriptive	TRUE	Infrared Heater	358	1.00	358	1.00	358
C&I	Prescriptive	TRUE	Prescriptive Change Other	2,700	1.00	2,700	1.00	2,700
C&I	Prescriptive	TRUE	Prescriptive Change Steam Trap	57,688	1.00	57,688	1.00	57,688
C&I	Prescriptive	TRUE	Steam Traps - HVAC Repair/Rep Low	12,480	1.00	12,480	1.00	12,480
C&I	Prescriptive	TRUE	Steam Traps - Industrial Rep	537,665	1.00	537,665	1.00	537,665
Public	Prescriptive	TRUE	Boiler Tune Up - Space Heating	64,913	0.96	62,115	1.00	62,115

Program Category	Program Path	DAC Project	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
Public	Prescriptive	TRUE	Business Furnace RTU Tune-Up	911	1.00	911	1.00	911
Public	Prescriptive	TRUE	Demand Controlled Ventilation	1,989	1.00	1,989	1.00	1,989
Public	Prescriptive	TRUE	High Efficiency Boiler	11,707	1.01	11,865	1.00	11,865
Public	Prescriptive	TRUE	Prescriptive Change Steam Trap	10,516	1.00	10,516	1.00	10,516
Public	Prescriptive	TRUE	Steam Pipe Insulation	15,077	1.00	15,077	1.00	15,077
Public	Prescriptive	TRUE	Steam Pipe Insulation - Fitting	1,263	1.00	1,263	1.00	1,263
Public	Prescriptive	TRUE	Steam Pipe Insulation - Valve	4,601	1.00	4,601	1.00	4,601
Public	Prescriptive	TRUE	Steam Traps - HVAC Repair/Rep Low	428,990	1.00	428,990	1.00	428,990
Public	Prescriptive	TRUE	Steam Traps - Industrial Rep	59,880	1.00	59,880	1.00	59,880
Public	Prescriptive	TRUE	Storage Water Heater (Large)	575	1.00	575	1.00	575
<b>DAC Subtotal</b>				<b>1,240,070</b>	<b>1.00</b>	<b>1,237,429</b>		<b>1,237,429</b>
<b>Total</b>				<b>2,727,994</b>	<b>1.00</b>	<b>2,725,533</b>		<b>2,595,217</b>

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

† NTG is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>. DAC designated sites based on census tract and consumption data use an NTG of 1.00.

Source: Evaluation team analysis.

The NSG program includes 5 measures, as shown in Table 8. The Steam Trap measures contributed the most savings.

**Table 8. 2024 Annual Energy Savings by Measure for NSG**

Program Category	Program Path	DAC Project	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	Verified Net Savings (Therms)
C&I	Prescriptive	FALSE	Boiler Tune Up - Process	126,993	1.00	126,993	0.91	115,564
C&I	Prescriptive	FALSE	Prescriptive Change Steam Trap	1,516	1.00	1,516	0.91	1,380
C&I	Prescriptive	FALSE	Steam Traps - HVAC Repair/Rep Low	219,175	1.00	219,175	0.91	199,449
C&I	Prescriptive	FALSE	Steam Traps - Industrial Rep	225,851	1.00	225,851	0.91	205,524
Public	Prescriptive	FALSE	Boiler Tune Up - Process	3,222	1.00	3,222	0.92	2,964
Public	Prescriptive	FALSE	Boiler Tune Up - Space Heating	22,541	1.00	22,541	0.92	20,738
<b>Non-DAC Subtotal</b>				<b>599,298</b>	<b>1.00</b>	<b>599,298</b>		<b>545,619</b>
C&I	Prescriptive	TRUE	Steam Traps - Industrial Rep	236,708	1.00	236,708	1.00	236,708
Public	Prescriptive	TRUE	Boiler Tune Up - Process	2,393	1.00	2,393	1.00	2,393
Public	Prescriptive	TRUE	Boiler Tune Up - Space Heating	83,750	1.00	83,750	1.00	83,750
Public	Prescriptive	TRUE	Steam Traps - HVAC Repair/Rep Low	106,078	1.00	106,077	1.00	106,077
<b>DAC-Subtotal</b>				<b>428,929</b>	<b>1.00</b>	<b>428,929</b>		<b>428,929</b>
<b>Total</b>				<b>1,028,227</b>	<b>1.00</b>	<b>1,028,227</b>		<b>974,548</b>

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

† NTG is the deemed value available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>. DAC designated sites based on census tract and consumption data use an NTG of 1.00.

Source: Evaluation team analysis.

# Impact Analysis Findings and Recommendations

## *Impact Parameter Estimates*

Table 9 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 a discussion of all measures with realization rates above or below 100 percent. Appendix A provides a description of the impact analysis methodology.

**Table 9. Verified Gross Savings Parameters**

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Data Source(s)
Boiler Tune Up - Process	MBH	Varies	Varies	1.00	IL TRM v12.0 Section 4.4.3†
Boiler Tune Up - Space Heating	MBH	Varies	Varies	0.99	Section 4.4.2
Business Furnace RTU Tune-Up	MBH	Varies	Varies	1.00	Section 4.4.31
Demand Controlled Ventilation	Sq Ft	0.072	0.072	1.00	Section 4.4.19
Dock Door Seals	Each	234.9475	234.9483	1.00	MMDB
Draft Controls	MBH	Varies	Varies	1.00	Section 4.4.23
High Efficiency Boiler	MBH	Varies	Varies	1.01	Section 4.4.10
Infrared Heater	MBH	Varies	Varies	1.00	Section 4.4.12
Linkageless Boiler Controls for Space Heating	MBH	Varies	Varies	1.00	Section 4.4.21
Prescriptive Change Other	Each	Custom Calculation	Custom Calculation	1.00	PTD*, MMDB
Prescriptive Change Steam Trap	Projects	Custom Calculation	Custom Calculation	1.00	PTD, MMDB
Steam Pipe Insulation	Ln Ft.	Varies	Varies	1.00	PTD, MMDB
Steam Pipe Insulation - Fitting	Ln Ft.	Varies	Varies	1.00	PTD, MMDB
Steam Pipe Insulation - Valve	Ln Ft.	Varies	Varies	1.00	PTD, MMDB
Steam Traps - HVAC Repair/Rep High	Each	Varies	Varies	1.00	IL TRM v12.0, Section 4.4.16, PTD, MMDB
Steam Traps - HVAC Repair/Rep Low	Each	Varies	Varies	1.00	Section 4.4.16, PTD, MMDB
Steam Traps - Industrial Rep	Projects	Varies	Varies	1.00	Section 4.4.16
Storage Water Heater (Large)	MBH	Varies	Varies	1.00	Section 4.3.1

\* Program Tracking Data (PTD) provided by Peoples Gas and North Shore Gas; extract dated January 30, 2025.

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

MMDB – Master Measure Database from PGL and NSG.

Source: Evaluation team analysis.

## *Findings and Recommendations*

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

**Finding 1.** The evaluation team found some boiler measures are not utilizing the business type provided in the tracking data to inform the Hours variable in ex ante savings calculations. Verified savings use an Hours value based on the business type provided in the tracking data.

- The Boiler Tune Up - Space Heating measure in Work Order ID WO-6446113 is listed as a Government business type in the tracking data, but ex ante savings use an Office business type.
- The Boiler Tune Up - Space Heating measures in Work Order ID WO-4296960 are listed as a K-12 School business type in the tracking data, but ex ante savings use a Government business type.
- The Boiler Tune Up - Space Heating measures in Work Order ID WO-4297209 are listed as a WareHouse business type in the tracking data, but ex ante savings use an Unknown business type.
- The High Efficiency Boiler measure in Work Order ID WO-5616996 is listed as an Other business type in the tracking data, but ex ante savings use an Office business type.

**Recommendation 1.** Ensure ex ante savings reflect the information provided in the tracking data.

**Finding 2.** The evaluation team matched per-unit incentive amounts in the tracking data to incentive amounts in the MMDB to identify the Steam Pipe Insulation measures' size. Size information was then used to determine verified per-unit savings, as no savings inputs were provided in the tracking data. This did not impact the realization rates.

**Recommendation 2.** Ensure all information required to determine the Steam Pipe Insulation savings is provided to the evaluation team in the tracking data, either all calculation variables or enough information to determine per-unit savings from the MMDB. Since the evaluation team relied on tracking data incentive amounts, ensure these values are entered correctly.

**Finding 3.** The evaluation team used ex ante per-unit savings and details provided in the 2024 Mid-year Summary Findings to determine that Steam Traps – HVAC Repair/Rep measures in Work Order IDs WO-4297182, WO-5917423, and WO-5997695 were High pressure measures with a steam pressure of 15 and above. All other measures were Low pressure measures with a steam pressure default of 14.99. This pressure information determined the values used in savings calculations, there was no impact on the realization rates.

**Recommendation 3.** Provide the steam pressure information in the tracking data. The evaluation team also recommends specifying High or Low pressure in the measure name.

**Finding 4.** The evaluation team found two instances of the Prescriptive Change Other measure, Work Order IDs WO-6965297 and WO-6965339, which reported a quantity of one and zero ex ante savings in the tracking data. These measures have verified savings of zero and are included in the report to ensure verified values account for all quantities. This had no impact on the realization rate.

**Recommendation 4.** Ensure all measures with positive quantity values but zero ex ante savings, except for Steam Trap Test or Bonus measures, are explained in the tracking data.

**Finding 5.** The evaluation team used a NTG of 1.00 to calculate verified net therms savings for all measures in DAC designated sites that met the size criteria (eligibility was determined using a provided supplemental file). The ex ante net savings values provided in the program tracking data for DAC measures do not reflect a NTG of 1.00. The evaluation team utilized the ex ante gross savings values provided in the tracking data for reporting purposes, so there is no impact to the realization rates of these DAC measures.

**Recommendation 5.** Ensure the tracking data incorporates DAC eligibility and the proper NTG value when calculating ex ante net savings values.

## Appendix A. Impact Analysis Methodology

Guidehouse determined verified gross savings for each program measure by:

1. Utilizing a provided supplemental file to identify measures in a DAC designated site.
2. Reviewing the savings algorithm inputs in the MMDB for agreement with the IL TRM v12.0 and IL TRM v12.0 errata memo 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 v12.0 or IL TRM v12.0 errata memo.
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 NTG. The 2024 NTG were based on past evaluation research and defined by a consensus process through SAG.<sup>2</sup> Economically disadvantaged areas were identified by census track and evaluation used NTG of 1.00 for DAC projects' verified savings when they met the size criteria, based on Illinois Policy Manual 3.0.<sup>3</sup>

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<sup>2</sup> A deemed value. Available on the SAG website: <https://www.ilsag.info/evaluator-ntg-recommendations-for-2024/>

<sup>3</sup> [https://www.ilsag.info/wp-content/uploads/IL\\_EE\\_Policy\\_Manual\\_Version\\_3.0\\_Final\\_11-3-2023.pdf](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 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 – PGL**

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)
C&I	Prescriptive	Boiler Tune Up - Process	FALSE	MBH	244,629	2.00	NO	0	250,191	250,191	227,674
C&I	Prescriptive	Boiler Tune Up - Space Heating	FALSE	MBH	25,106	3.00	NO	0	10,351	10,351	9,420
C&I	Prescriptive	Draft Controls	FALSE	MBH	62,604	15.00	NO	0	9,146	9,146	8,323
C&I	Prescriptive	Linkageless Boiler Controls for Space Heating	FALSE	MBH	99,186	20.00	NO	0	55,761	55,764	50,745
C&I	Prescriptive	Prescriptive Change Steam Trap	FALSE	Projects	9	6.00	NO	0	25,984	25,984	23,646
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep High	FALSE	Each	12	6.00	NO	37,711	4,426	4,426	4,028
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep Low	FALSE	Each	167	6.00	NO	1,116,919	130,257	130,257	118,534
C&I	Prescriptive	Steam Traps - Industrial Rep	FALSE	Projects	46	6.00	NO	5,363,175	640,621	640,621	582,965
C&I	Prescriptive	Boiler Tune Up - Process	TRUE	MBH	27,198	2.00	NO	0	27,816	27,816	27,816
C&I	Prescriptive	Dock Door Seals	TRUE	Each	4	15.00	NO	0	940	940	940
C&I	Prescriptive	Infrared Heater	TRUE	MBH	200	15.00	NO	0	358	358	358
C&I	Prescriptive	Prescriptive Change Other	TRUE	Each	2,700	6.30	NO	0	2,700	2,700	2,700
C&I	Prescriptive	Prescriptive Change Steam Trap	TRUE	Projects	2	6.00	NO	0	57,688	57,688	57,688
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep Low	TRUE	Each	16	6.00	NO	107,010	12,480	12,480	12,480
C&I	Prescriptive	Steam Traps - Industrial Rep	TRUE	Projects	24	6.00	NO	4,468,139	537,665	537,665	537,665

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)
Public	Prescriptive	Boiler Tune Up - Space Heating	FALSE	MBH	104,560	3.00	NO	0	50,723	50,900	46,828
Public	Prescriptive	High Efficiency Boiler	FALSE	MBH	9,500	25.00	NO	0	15,034	15,034	13,831
Public	Prescriptive	Prescriptive Change Steam Trap	FALSE	Projects	2	6.00	NO	0	5,312	5,312	4,887
Public	Prescriptive	Steam Pipe Insulation	FALSE	Ln Ft.	6,032	15.00	NO	0	34,110	34,110	31,381
Public	Prescriptive	Steam Pipe Insulation - Fitting	FALSE	Ln Ft.	1,396	15.00	NO	0	3,590	3,590	3,303
Public	Prescriptive	Steam Pipe Insulation - Valve	FALSE	Ln Ft.	183	15.00	NO	0	1,861	1,861	1,713
Public	Prescriptive	Steam Traps - HVAC Repair/Rep Low	FALSE	Each	317	6.00	NO	2,042,023	238,144	238,144	219,092
Public	Prescriptive	Steam Traps - Industrial Rep	FALSE	Projects	2	6.00	NO	98,225	11,621	11,621	10,691
Public	Prescriptive	Storage Water Heater (Large)	FALSE	MBH	1,139.8	15.00	NO	0	792	792	729
Public	Prescriptive	Boiler Tune Up - Space Heating	TRUE	MBH	134,204	3.00	NO	0	64,913	62,115	62,115
Public	Prescriptive	Business Furnace RTU Tune-Up	TRUE	MBH	2,400	3.00	NO	0	911	911	911
Public	Prescriptive	Demand Controlled Ventilation	TRUE	Sq Ft	27,630	10.00	NO	0	1,989	1,989	1,989
Public	Prescriptive	High Efficiency Boiler	TRUE	MBH	8,225	25.00	NO	0	11,707	11,865	11,865
Public	Prescriptive	Prescriptive Change Steam Trap	TRUE	Projects	2	6.00	NO	0	10,516	10,516	10,516
Public	Prescriptive	Steam Pipe Insulation	TRUE	Ln Ft.	2,961	15.00	NO	0	15,077	15,077	15,077
Public	Prescriptive	Steam Pipe Insulation - Fitting	TRUE	Ln Ft.	246	15.00	NO	0	1,263	1,263	1,263
Public	Prescriptive	Steam Pipe Insulation - Valve	TRUE	Ln Ft.	240	15.00	NO	0	4,601	4,601	4,601
Public	Prescriptive	Steam Traps - HVAC Repair/Rep Low	TRUE	Each	550	6.00	NO	3,678,477	428,990	428,990	428,990
Public	Prescriptive	Steam Traps - Industrial Rep	TRUE	Projects	4	6.00	NO	498,576	59,880	59,880	59,880
Public	Prescriptive	Storage Water Heater (Large)	TRUE	MBH	828	15.00	NO	0	575	575	575
<b>Total or Weighted Average</b>						<b>6.17</b>		<b>17,410,256</b>	<b>2,727,994</b>	<b>2,725,533</b>	<b>2,595,217</b>

Source: Evaluation team analysis.

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

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)
C&I	Prescriptive	Boiler Tune Up - Process	FALSE	MBH	124,170	2.00	NO	0	126,993	126,993	115,564
C&I	Prescriptive	Prescriptive Change Steam Trap	FALSE	Projects	1	6.00	NO	0	1,516	1,516	1,380
C&I	Prescriptive	Steam Traps - HVAC Repair/Rep Low	FALSE	Each	281	6.00	NO	1,879,367	219,175	219,175	199,449
C&I	Prescriptive	Steam Traps - Industrial Rep	FALSE	Projects	3	6.00	NO	1,866,763	225,851	225,851	205,524
C&I	Prescriptive	Steam Traps - Industrial Rep	TRUE	Projects	3	6.00	NO	1,955,877	236,708	236,708	236,708
Public	Prescriptive	Boiler Tune Up - Process	FALSE	MBH	3,150	2.00	NO	0	3,222	3,222	2,964
Public	Prescriptive	Boiler Tune Up - Space Heating	FALSE	MBH	46,276	3.00	NO	0	22,541	22,541	20,738
Public	Prescriptive	Boiler Tune Up - Process	TRUE	MBH	2,340	2.00	NO	0	2,393	2,393	2,393
Public	Prescriptive	Boiler Tune Up - Space Heating	TRUE	MBH	171,640	3.00	NO	0	83,750	83,750	83,750
Public	Prescriptive	Steam Traps - HVAC Repair/Rep Low	TRUE	Each	136	6.00	NO	909,587	106,078	106,077	106,077
<b>Total or Weighted Average</b>						<b>5.17</b>		<b>6,611,594</b>	<b>1,028,227</b>	<b>1,028,227</b>	<b>974,548</b>

Source: Evaluation team analysis.