

# Home Energy Rebates Impact Evaluation Report

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

**Prepared for:**

**Peoples Gas and North Shore Gas  
FINAL**

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**Prepared by:**

Marisa Rudolph  
Guidehouse

Robert Hodge  
Guidehouse

[guidehouse.com](https://www.guidehouse.com)

**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 Balbis  
Partner  
561.644.9407  
**ebalbis@guidehouse.com**

Jeff Erickson  
Director  
802.526.5113  
**jeff.erickson@guidehouse.com**

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

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

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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 Home Energy Rebates programs. It 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 and inputs to the TRC test. Program year 2024 covers January 1, 2024 through December 31, 2024.

## Program Description

The Home Energy Rebate Program provides rebates to PGL and NSG residential customers who make certain energy-saving improvements to their homes. The program is composed of two distinct offerings: 1) replacement of HVAC and other equipment, and 2) weatherization (Wx) improvements. The HVAC and other equipment offer incentives to provide customer-installed or contractor-installed energy efficient furnaces, boilers, water heaters, and programmable thermostats. The weatherization offers incentives to trade ally-installed home insulation measures, such as air sealing and duct sealing. In 2022 and beyond, ComEd processed rebates for advanced thermostats, and PGL and NSG reimbursed ComEd for the gas portion (“ComEd Marketplace”), removing the need for participants to complete separate rebate applications for natural gas and electricity.

The PGL program had 3,621 participants in 2024 and completed 3,904 projects, as shown in Table 1. 2024 Volumetric Summary for PGL.

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

Participation	ComEd Marketplace	HVAC	Weatherization	Total
Participants *	2,500	895	226	3,621
Installed Projects †	2,503	1,122	279	3,904
Measure Types Installed ‡	1	11	6	18

\* Participants are defined as the number of distinct account numbers with realized gas savings.

† Installed Projects represent the unique count of work orders completed.

‡ Measure types 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 summarizes the installed measure quantities that are the basis for verified energy savings for PGL.

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

Program Path	Measure	Quantity Unit	Installed Quantity
ComEd Marketplace	Smart Thermostat	Each	2,503
	Boiler - DHW Two-In-One >=88% AFUE	Each	28
	Boiler - HW <300MBtu, >=88% AFUE	Each	23
	Boiler - Steam <=300MBH, >=82.5% AFUE	Each	1
	Furnace > 95% AFUE	Each	9
	Furnace >= 97% AFUE	Each	198
HVAC	Furnace >95% <97% AFUE	Each	477
	Indirect Water Heater, >=88% AFUE	Each	1
	Programmable Thermostat-Baseline Manual	Each	29
	Smart Thermostat	Each	284
	Tankless Water Heater>=0.82 Energy Factor	Each	1
	Tankless Water Heater>=0.95 UEF	Each	65

Program Path	Measure	Quantity Unit	Installed Quantity
Weatherization	Air Sealing with Attic Insulation	CFM	95,600
	Air Sealing	CFM	58,410
	Attic Insulation	SQFT	119,308
	Duct Sealing	CFM	3,588
	Foundation Insulation	SQFT	2,023
	Wall Insulation	SQFT	5,326

Source: Peoples Gas tracking data and Guidehouse evaluation team analysis

The NSG program had 1,320 participants in 2024 and completed 1,525 projects, as shown in Table 3. 2024 Volumetric Summary for NSG.

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

Participation	ComEd Marketplace	HVAC	Weatherization	Total
Participants *	460	720	140	1,320
Installed Projects †	461	887	177	1,525
Measure Types Installed ‡	1	8	6	15

\* Participants are defined as the number of distinct account numbers with realized gas savings.

† Installed Projects represent the unique count of work orders completed.

‡ Measure types 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 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 Path	Measure	Quantity Unit	Installed Quantity	
ComEd Marketplace	Smart Thermostat	Each	461	
	Boiler - DHW Two-In-One >=88% AFUE	Each	6	
	Boiler - HW <300MBtu, >=88% AFUE	Each	13	
	Furnace > 95% AFUE	Each	3	
	HVAC	Furnace >= 97% AFUE	Each	240
		Furnace >95% <97% AFUE	Each	440
		Programmable Thermostat-Baseline Manual	Each	5
		Smart Thermostat	Each	156
		Tankless Water Heater>=0.95 UEF	Each	28
Weatherization	Air Sealing with Attic Insulation	CFM	68,234	
	Air Sealing	CFM	38,540	
	Attic Insulation	SQFT	99,571	
	Duct Sealing	CFM	7,297	
	Foundation Insulation	SQFT	489	
	Wall Insulation	SQFT	3,652	

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

## Program Savings Detail

Table 5 summarizes the energy savings the PGL Home Energy Rebates Program achieved by path in 2024.

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

Program Category	Program Path	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPPSO‡	Verified Net Savings (Therms)
<b>Non-Disadvantaged Communities</b>	ComEd Marketplace	125,900	100%	125,900	0.95	1.083	129,532
	HVAC	155,063	100%	155,127	Varies	1.083	126,927
	Weatherization	18,776	100%	18,755	Varies	1.083	17,995
<b>Non-DAC Subtotal</b>		<b>299,739</b>	<b>100%</b>	<b>299,781</b>			<b>274,454</b>
<b>Disadvantaged Communities**</b>	ComEd Marketplace	69,207	100%	69,207	1.03	N/A	71,283
	HVAC	31,921	100%	32,115	1.00	N/A	32,115
	Weatherization	8,452	100%	8,450	1.00	N/A	8,450
<b>DAC Subtotal</b>		<b>109,581</b>	<b>100%</b>	<b>109,772</b>			<b>111,848</b>
<b>Total</b>		<b>409,320</b>	<b>100%</b>	<b>409,554</b>			<b>386,303</b>

\* 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/>.

\*\* For DAC projects, if the deemed NTG is multiplied by 1.083 Non-Participant Spillover (NPSO) factor and the resulting NTG value is less than 1.00, the evaluation assigned a DAC NTG of 1.00. If the resulting NTG value is greater than or equal to 1.00, the evaluation used the >1.00 value for net savings impact. The NTG were greater than 1.00, so the DAC NTG wasn't applied.

‡ Non-participant spillover (NPSO) factor of 1.083.

Source: Evaluation team analysis

Table 6 summarizes the energy savings the NSG Home Energy Rebates Program achieved by path in 2024.

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

Program Category	Program Path	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
<b>Non-Disadvantaged Communities</b>	ComEd Marketplace	33,588	100%	33,588	0.95	1.083	34,557
	HVAC	164,493	100%	164,535	Varies	1.083	133,768
	Weatherization	25,385	100%	25,380	Varies	1.083	24,304
<b>Non-DAC Subtotal</b>		<b>223,466</b>	<b>100%</b>	<b>223,503</b>			<b>192,629</b>
<b>Disadvantaged Communities**</b>	ComEd Marketplace	4,069	100%	4,069	1.03	N/A	4,191
	HVAC	5,143	100%	5,143	1.00	N/A	5,143
	Weatherization	316	100%	316	1.00	N/A	316
<b>DAC Subtotal</b>		<b>9,528</b>	<b>100%</b>	<b>9,528</b>			<b>9,650</b>
<b>Total</b>		<b>232,994</b>	<b>100%</b>	<b>233,031</b>			<b>202,279</b>

\* 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/>.

\*\* For DAC projects, if the deemed NTG is multiplied by 1.083 Non-Participant Spillover (NPSO) factor and the resulting NTG value is less than 1.00, the evaluation assigned a DAC NTG of 1.00. If the resulting NTG value is greater than or equal to 1.00, the evaluation used the >1.00 value for net savings impact. The NTG were greater than 1.00, so the DAC NTG was not applied.

‡ Non-participant spillover (NPSO) factor of 1.083.

Source: Evaluation team analysis

## **Program Savings by Measure**

The PGL program includes 23 measures, as shown in Table 7. 2024 Annual Energy Savings by Measure for PGL. The Advanced Thermostats and Furnaces contributed the most savings.

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

Program Category	Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NSPO‡	Verified Net Savings (Therms)	
Non-DAC	ComEd Marketplace	Smart Thermostat	125,900	100%	125,900	0.95	1.083	129,532	
		Boiler - DHW Two-In-One >=88% AFUE	5,736	100%	5,736	0.74	1.083	4,597	
	HVAC	Boiler - HW <300MBtu, >=88% AFUE	3,404	101%	3,448	0.74	1.083	2,763	
		Furnace > 95% AFUE	1,258	101%	1,270	0.74	1.083	1,017	
		Furnace >= 97% AFUE	41,429	100%	41,429	0.74	1.083	33,202	
		Furnace >95% <97% AFUE	82,199	100%	82,200	0.74	1.083	65,876	
		Indirect Water Heater, >=88% AFUE	65	100%	65	0.74	1.083	52	
		Programmable Thermostat-Baseline Manual	1,122	100%	1,122	0.74	1.083	899	
		Smart Thermostat	16,037	100%	16,038	0.89	1.083	15,458	
		Tankless Water Heater>=0.82 Energy Factor	60	100%	60	0.74	1.083	48	
		Tankless Water Heater>=0.95 UEF	3,753	100%	3,760	0.74	1.083	3,014	
		Weatherization	Air Sealing with Attic Insulation	4,514	100%	4,514	0.89	1.083	4,351
			Air Sealing	3,463	100%	3,463	0.88	1.083	3,301
			Attic Insulation	8,394	100%	8,394	0.89	1.083	8,091
	Duct Sealing		1,740	100%	1,740	0.87	1.083	1,639	
	Foundation Insulation		132	84%	111	0.88	1.083	105	
		Wall Insulation	533	100%	533	0.88	1.083	508	
	<b>Non-DAC Subtotal</b>			<b>299,739</b>	<b>100%</b>	<b>299,781</b>			<b>274,454</b>
	DAC	ComEd Marketplace	Smart Thermostat	69,207	100%	69,207	1.03	N/A	71,283
			Boiler - DHW Two-In-One >=88% AFUE	1,378	114%	1,564	1.00	N/A	1,564
HVAC		Boiler - HW <300MBtu, >=88% AFUE	852	100%	852	1.00	N/A	852	
		Boiler - Steam <=300MBH, >=82.5% AFUE	15.60	100%	15.60	1.00	N/A	15.60	
		Furnace > 95% AFUE	629	101%	635	1.00	N/A	635	
		Furnace >= 97% AFUE	5,714	100%	5,714	1.00	N/A	5,714	
		Furnace >95% <97% AFUE	17,824	100%	17,824	1.00	N/A	17,824	
		Programmable Thermostat-Baseline Manual	685	100%	685	1.00	N/A	685	
		Smart Thermostat	3,979	100%	3,980	1.00	N/A	3,980	
		Tankless Water Heater>=0.95 UEF	843	100%	845	1.00	N/A	845	
Weatherization	Air Sealing with Attic Insulation	1,434	100%	1,434	1.00	N/A	1,434		

Program Category	Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NSPO‡	Verified Net Savings (Therms)
		Air Sealing	1,318	100%	1,318	1.00	N/A	1,318
		Attic Insulation	3,963	100%	3,963	1.00	N/A	3,963
		Duct Sealing	1,621	100%	1,621	1.00	N/A	1,621
		Foundation Insulation	17	87%	14	1.00	N/A	14
		Wall Insulation	100	100%	100	1.00	N/A	100
<b>DAC Subtotal</b>			<b>109,581</b>	<b>100%</b>	<b>109,772</b>			<b>111,848</b>
<b>Total</b>			<b>409,320</b>	<b>100%</b>	<b>409,554</b>			<b>386,303</b>

\* 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/>. Disadvantaged communities (DAC) designated sites based on census tract have an NTG of 1.00. If a measure has NTG>1.0, this value should be used even if the project is found in the DAC area.

‡ The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.083 (not applicable to DAC sites). If an NPSO is applied, then the overall NTG will be the NTG>1.0 multiplied by the NPSO.

Source: Evaluation team analysis

The NSG program includes 20 measures, as shown in Table 8. 2024 Annual Energy Savings by Measure for NSG. The Advanced Thermostats and Furnaces contributed the most savings.

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

Program Category	Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NSPO‡	Verified Net Savings (Therms)
Non-DAC	ComEd Marketplace	Smart Thermostat	33,588	100%	33,588	0.95	1.083	34,557
		Boiler - DHW Two-In-One >=88% AFUE	1,564	100%	1,564	0.74	1.083	1,254
	HVAC	Boiler - HW <300MBtu, >=88% AFUE	3,106	102%	3,168	0.74	1.083	2,539
		Furnace > 95% AFUE	657	97%	635	0.74	1.083	509
		Furnace >= 97% AFUE	55,953	100%	55,953	0.74	1.083	44,842
		Furnace >95% <97% AFUE	89,118	100%	89,119	0.74	1.083	71,422
		Programmable Thermostat-Baseline Manual	312	100%	312	0.74	1.083	250
		Smart Thermostat	11,733	100%	11,734	0.89	1.083	11,310
		Tankless Water Heater>=0.95 UEF	2,049	100%	2,050	0.74	1.083	1,653
		Air Sealing with Attic Insulation	4,078	100%	4,078	0.89	1.083	3,931
		Air Sealing	3,104	100%	3,104	0.88	1.083	2,958
		Attic Insulation	12,226	100%	12,226	0.89	1.083	11,784
	Weatherization	Duct Sealing	5,560	100%	5,560	0.87	1.083	5,239
		Foundation Insulation	36	85%	30	0.88	1.083	29
		Wall Insulation	381	100%	381	0.88	1.083	363
<b>Non-DAC Subtotal</b>			<b>223,466</b>	<b>100%</b>	<b>223,503</b>			<b>192,629</b>
DAC	ComEd Marketplace	Smart Thermostat	4,069	100%	4,069	1.03	N/A	4,191
		Furnace >= 97% AFUE	1,191	100%	1,190	1.00	N/A	1,190
	HVAC	Furnace >95% <97% AFUE	3,145	100%	3,145	1.00	N/A	3,145
		Smart Thermostat	807	100%	807	1.00	N/A	807
		Air Sealing with Attic Insulation	167	100%	167	1.00	N/A	167
	Weatherization	Air Sealing	51	100%	50.84	1.00	N/A	50.84
		Attic Insulation	98	100%	98	1.00	N/A	98
<b>DAC Subtotal</b>			<b>9,528</b>	<b>100%</b>	<b>9,528</b>			<b>9,650</b>
<b>Total</b>			<b>232,994</b>	<b>100%</b>	<b>233,031</b>			<b>202,279</b>

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 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)
Smart Thermostat	Each	Varies	Varies	100%	Illinois TRM, v12.0†, Section 5.3.16, Program Tracking Data (PTD)*, PTD* MMDB‡
PTD,Boiler - DHW Two-In-One >=88% AFUE	Each	260.72, 334.86	260.72, 521.43	100%, 156%	Illinois TRM, v12.0†, Section 5.3.17, PTD*, MMDB‡
Boiler - HW <300MBtu, >=88% AFUE	Each	Varies	Varies	100%, 114%	Illinois TRM, v12.0†, Section 5.3.6, PTD*, MMDB‡
Boiler - Steam <=300MBH, >=82.5% AFUE	Each	15.6	15.6	100%	Illinois TRM, v12.0†, Section 5.3.6, PTD*, MMDB‡
Furnace > 95% AFUE	Each	209.69, 238.1	211.59	88%, 100%	Illinois TRM, v12.0†, Section 5.3.7, PTD*, MMDB‡
Furnace >= 97% AFUE	Each	238.1, 476.2	238.1, 476.2	100%	Illinois TRM, v12.0†, Section 5.3.7, PTD*, MMDB‡
Furnace >95% <97% AFUE	Each	209.69, 419.39	209.69, 419.39	100%	Illinois TRM, v12.0†, Section 5.3.7, PTD*, MMDB‡
Indirect Water Heater, >=88% AFUE	Each	65.17	65.17	100%	Illinois TRM, v12.0†, Section 5.4.2, PTD*, MMDB‡
Programmable Thermostat-Baseline Manual	Each	62.31	62.31	100%	Illinois TRM, v12.0†, Section 5.3.11, PTD*, MMDB‡
Tankless Water Heater >=0.82 Energy Factor	Each	60.46	60.46	100%	Illinois TRM, v12.0†, Section 5.4.2, PTD*, MMDB‡
Tankless Water Heater >=0.95 UEF	Each	Varies	Varies	100%, 102%	Illinois TRM, v12.0†, Section 5.4.2, PTD*, MMDB‡
Air Sealing with Attic Insulation	CFM	Varies	Varies	100%	Illinois TRM, v12.0†, Section 5.6.1, PTD*, MMDB‡
Air Sealing	CFM	Varies	Varies	100%	Illinois TRM, v12.0†, Section 5.6.1, PTD*, MMDB‡
Attic Insulation	SQFT	Varies	Varies	100%	Illinois TRM, v12.0†, Section 5.6.5, PTD*, MMDB‡
Duct Sealing	CFM	Varies	Varies	100%	Illinois TRM, v12.0†, Section 5.3.4, PTD*, MMDB‡
Foundation Insulation	SQFT	Varies	Varies	85%	Illinois TRM, v12.0†, Section 5.6.2, PTD*, MMDB‡
Wall Insulation	SQFT	Varies	Varies	100%	Illinois TRM, v12.0†, Section 5.6.4, PTD*, MMDB‡

\* 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>. A given measure type can produce multiple per-unit savings values depending on the inputs to the savings algorithm.

‡ MMDB – Master Measure Database calculator

## ***Findings and Recommendations***

**Finding 1.** All instances of boiler efficiency measures where quantity is one resulted in a 100% realization rate. However, we found a discrepancy in savings for three projects, two Hot Water Boilers (WO-6465442 and WO-5970570) and one Combination Boiler (WO-6801797), that had a quantity of two in the tracking data. The realization rate was 114% for the 2 HW boilers and 156% for the combination boiler.

**Recommendation 1.** Ensure the quantity and actual Input Capacity values for Hot Water Boilers reflect what was installed and included in tracking data. Check that all the input values for Combination Boilers match what is deemed in the MMDB and TRM.

**Finding 2.** Ex-ante savings for one Furnace labeled as AFUE  $\geq 95$  in tracking data (WO-5776999) used inputs for a AFUE  $\geq 97$  tier furnace (Input Capacity = 87,796, Efficient Furnace Annual Fuel Utilization Efficiency Rating = 97.5%). Guidehouse assumed the measure label from tracking data was correct and used AFUE  $\geq 95$  inputs for this measure (Input Capacity = 84,305, Efficient Furnace Annual Fuel Utilization Efficiency Rating = 96.0%), resulting in a realization rate of 88% for WO-5776999.

**Recommendation 2.** Ensure measure labels are correct for all Furnaces. Denote accurate AFUE value in measure label for all AFUE  $\geq 97$  tier Furnaces.

**Finding 3.** Ex-ante savings for eight Tankless Water Heaters used 2023 MMDB values for Uniform Energy Factor Rating for efficient equipment (94%). Guidehouse calculated savings using the 2024 Uniform Energy Factor Rating of 95%, resulting in a realization rate of 101.7% for these eight measures. The Project IDs affected are WO-6173228, WO-5920017, WO-6173197, WO-6173245, WO-6041279, WO-5934689, WO-5914773, and WO-6319968.

**Recommendation 3.** Ensure ex-ante savings reflect 2024 MMDB savings values or latest MMDB values for all measures.

**Finding 4.** All instances of Foundation Insulation resulted in realization rates less than 100%. Guidehouse used inputs listed in the 2024 MMDB to calculate savings (R Old = 7.42, R New = Efficient R Value, Framing Factor = 25%, HDD = 4,798, nHeat = 72%, Basement Heat Adjustment = 63%).

**Recommendation 4.** Ensure that the R-values provided are correct and the ex-ante savings reflect 2024 MMDB input values.

## Appendix A. Impact Analysis Methodology

The evaluation team used the same impact methodology for each component. Verified gross savings were determined for each program measure by:

- Reviewing the savings algorithm inputs in the measure workbook for agreement with the IL-TRM v12.0 and IL-TRM Errata, where applicable.
- Validating the savings algorithm was applied correctly.
- Cross-checking per-unit savings values in the program tracking data with the verified values in the measure workbook (MMDB) or in Guidehouse's calculations if the workbook did not agree with the IL-TRM v12.0.
- Multiplying the verified per-unit savings value by the quantity reported in the tracking data. The team calculated verified net savings by multiplying the verified gross savings estimates by a NTG ratio. In Program Year 2024, NTG estimates used to calculate the net verified savings were based on past evaluation research and defined by a consensus process through the Illinois SAG.
- For DAC postal codes or census tract, the evaluation team utilized a NTG ratio of 1.0.
- Use deemed non-participant spillover value of 1.083.

## **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 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)
ComEd Marketplace	Smart Thermostat	TRUE	Each	2,503	11.00	NO	-	195,107	195,107	200,815
	Boiler - DHW Two-In-One >=88% AFUE	TRUE	Each	28	21.50	YES	-	7,114	7,300	6,161
	Boiler - HW <300MBtu, >=88% AFUE	TRUE	Each	23	25.00	YES	-	4,256	4,300	3,615
	Boiler - Steam <=300MBH, >=82.5% AFUE	TRUE	Each	1	25.00	YES	-	15.60	15.60	15.60
	Furnace > 95% AFUE	TRUE	Each	9	20.00	YES	-	1,887	1,904	1,652
	Furnace >= 97% AFUE	TRUE	Each	198	20.00	YES	-	47,144	47,144	38,917
	Furnace >95% <97% AFUE	TRUE	Each	477	20.00	YES	-	100,022	100,023	83,700
	Indirect Water Heater, >=88% AFUE	FALSE	Each	1	13.00	NO	-	65	65	52
	Programmable Thermostat-Baseline Manual	TRUE	Each	29	16.00	NO	-	1,807	1,807	1,584
	Smart Thermostat	TRUE	Each	284	11.00	NO	-	20,017	20,017	19,438
	Tankless Water Heater>=0.82 Energy Factor	FALSE	Each	1	13.00	NO	-	60	60	48
	Tankless Water Heater>=0.95 UEF	TRUE	Each	65	13.00	NO	-	4,596	4,605	3,858
	Air Sealing with Attic Insulation	TRUE	CFM	95,600	20.00	NO	-	5,948	5,948	5,785
	Air Sealing	TRUE	CFM	58,410	20.00	NO	-	4,782	4,782	4,619
Weatherization	Attic Insulation	TRUE	SQFT	119,308	30.00	NO	-	12,357	12,357	12,054
	Duct Sealing	TRUE	CFM	3,588	20.00	NO	-	3,360	3,360	3,260
	Foundation Insulation	TRUE	SQFT	2,023	30.00	NO	-	148	125	120
	Wall Insulation	TRUE	SQFT	5,326	30.00	NO	-	634	634	609
	<b>Total or Weighted Average</b>				<b>15.6</b>			<b>409,320</b>	<b>409,554</b>	<b>386,303</b>

Source: Evaluation team analysis

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

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)
ComEd Marketplace	Smart Thermostat	TRUE	Each	461	11.00	NO	-	37,656	37,656	38,747
	Boiler - DHW Two-In-One >=88% AFUE	FALSE	Each	6	21.50	YES	-	1,564	1,564	1,254
	Boiler - HW <300MBtu, >=88% AFUE	FALSE	Each	13	25.00	YES	-	3,106	3,168	2,539
	Furnace > 95% AFUE	FALSE	Each	3	20.00	YES	-	657	635	509
HVAC	Furnace >= 97% AFUE	TRUE	Each	240	20.00	YES	-	57,144	57,144	46,033
	Furnace >95% <97% AFUE	TRUE	Each	440	20.00	YES	-	92,264	92,265	74,567
	Programmable Thermostat-Baseline Manual	FALSE	Each	5	16.00	NO	-	312	312	250
	Smart Thermostat	TRUE	Each	156	11.00	NO	-	12,540	12,541	12,117
	Tankless Water Heater>=0.95 UEF	FALSE	Each	28	13.30	NO	-	2,049	2,050	1,643
Weatherization	Air Sealing with Attic Insulation	TRUE	CFM	68,234	20.00	NO	-	4,245	4,245	4,098
	Air Sealing	TRUE	CFM	38,540	20.00	NO	-	3,155	3,155	3,009
	Attic Insulation	TRUE	SQFT	99,571	30.00	NO	-	12,324	12,324	11,883
	Duct Sealing	FALSE	CFM	7,297	20.00	NO	-	5,560	5,560	5,239
	Foundation Insulation	FALSE	SQFT	489	30.00	NO	-	36	30	29
	Wall Insulation	FALSE	SQFT	3,652	30.00	NO	-	381	381	363
<b>Total or Weighted Average</b>				<b>18.6</b>			<b>232,994</b>	<b>233,031</b>	<b>202,279</b>	

Source: Evaluation team analysis