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|  | Community Joint Kits Program Impact Evaluation Report  Energy Efficiency Plan: Program Year 2023  (1/1/2023-12/31/2023) | | | | |
|  | Prepared for:  Peoples Gas and North Shore Gas  DRAFT  March 29, 2024 | | | | |
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# Introduction

This report presents the results of the impact evaluation of the Peoples Gas (PGL) and North Shore Gas (NSG) 2023 Community Joint Kits program. 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 Illinois total resource cost (TRC) inputs. Program year 2023 covers January 1, 2023 through December 31, 2023.

# Program Description

The Community Joint Kits program involves mail distribution of a free self-installation energy saving kit. The contents of the kit include a showerhead, faucet aerators, weatherstrippings, switch and outlet gaskets, window film kits, door sweeps, rope caulk and shower timer. The program distributes kits to customers verified as Low-Income Home Energy Assistance Program (LIHEAP) grant recipients and therefore validated as income eligible. The program is implemented jointly with ComEd.

The PGL program distributed 21,479 kits in 2023 and included eleven different types of measures as shown in the following table.

Table 2‑1. 2023 Volumetric Summary for PGL

|  |  |
| --- | --- |
| Participation | Income Eligible |
| Number of Kits Distributed (eleven measures per kit) | 21,479 |

Distributed measures refer to the total quantity of measures distributed within the kits.

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

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

Table 2‑2. 2023 Installed Measure Quantities for PGL

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Program Category | Program Path | Measure | Quantity Unit | Quantity per Kit | Total Quantity Distributed |
| Community Joint Kits | Income Eligible | Rope Caulk (30') | Ln Ft | 30 | 644,370 |
|  |  | Low Flow Showerheads | Each | 1 | 21,479 |
|  |  | V-Seal Weatherstripping Roll (17') | Ln Ft | 17 | 365,143 |
|  |  | Closed Foam Weatherstripping (17' Roll) | Ln Ft | 17 | 365,143 |
|  |  | Window Insulation Kit | Sq Ft | 56 | 1,202,824 |
|  |  | Shower Timer | Each | 1 | 21,479 |
|  |  | Self-Adhesive Door Sweep | Each | 1 | 21,479 |
|  |  | Low Flow Aerators (Bathroom) | Each | 2 | 42,958 |
|  |  | Low Flow Aerators (Kitchen) | Each | 1 | 21,479 |
|  |  | Outlet Gasket | Each | 4 | 85,916 |
|  |  | Switch Gasket | Each | 4 | 85,916 |

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

The NSG program distributed 1,268 kits in 2023 and included eleven different types of measures as shown in the following table.

Table 2‑3. 2023 Volumetric Summary for NSG

|  |  |
| --- | --- |
| Participation | Total |
| Number of Kits Distributed (eleven measures per kit) | 1,268 |

Distributed measures refer to the total quantity of measures distributed within the kits.

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

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

Table 2‑4. 2023 Installed Measure Quantities for NSG

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Program Category | Program Path | Measure | Quantity Unit | Quantity per Kit | Installed Quantity |
| Community Joint Kits | Income Eligible | Low Flow Showerheads | Each | 1 | 1,268 |
|  |  | Rope Caulk (30') | Ln Ft | 30 | 38,040 |
|  |  | V-Seal Weatherstripping Roll (17') | Ln Ft | 17 | 21,556 |
|  |  | Closed Foam Weatherstripping (17' Roll) | Ln Ft | 17 | 21,556 |
|  |  | Window Insulation Kit | Sq Ft | 56 | 71,008 |
|  |  | Shower Timer | Each | 1 | 1,268 |
|  |  | Self-Adhesive Door Sweep | Each | 1 | 1,268 |
|  |  | Low Flow Aerators (Bathroom) | Each | 2 | 2,536 |
|  |  | Low Flow Aerators (Kitchen) | Each | 1 | 1,268 |
|  |  | Outlet Gasket | Each | 4 | 5,072 |
|  |  | Switch Gasket | Each | 4 | 5,072 |

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

# Program Savings Detail

Table 3‑1 summarizes the energy savings the PGL Program achieved in 2023.

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Program Category | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | Verified Net Savings (Therms) |
| **Community Joint Kits** | Income Eligible | 548,595 | 100% | 548,595 | 1.00 | 548,595 |
| **Total or Weighted Average** | | **548,595** | **100%** | **548,595** | **1.00** | **548,595** |

\* Realization Rate (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 web site: https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/. Disadvantaged communities (DAC) designated sites are income eligible households and used NTG of 1.0.

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

Table 3‑2 summarizes the energy savings the NSG Program achieved in 2023.

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Program Category | Program Path | Ex Ante Gross Savings (Therms) | Verified Gross RR\* | Verified Gross Savings (Therms) | NTG† | Verified Net Savings (Therms) |
| **Community Joint Kits** | Income Eligible | 36,638 | 100% | 36,638 | 1.00 | 36,638 |
| **Total or Weighted Average** | | **36,638** | **100%** | **36,638** | **1.00** | **36,638** |

\* Realization Rate (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 web site: https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/. Disadvantaged communities (DAC) designated sites are income eligible households and used NTG of 1.0.

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

# Program Savings by Measure

The PGL program includes eleven measures as shown in the following table. The rope caulk (30’) and low flow showerheads measures contributed the most savings.

Table 4‑1. 2023 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† | Verified Net Savings (Therms) |
| Community Joint Kits | Income Eligible | Rope Caulk (30') | 89,009 | 100% | 89,009 | 1.00 | 89,009 |
| Low Flow Showerheads | 83,553 | 100% | 83,553 | 1.00 | 83,553 |
| V-Seal Weatherstripping Roll (17') | 79,086 | 100% | 79,086 | 1.00 | 79,086 |
| Closed Foam Weatherstripping (17' Roll) | 79,086 | 100% | 79,086 | 1.00 | 79,086 |
| Window Insulation Kit | 71,074 | 100% | 71,074 | 1.00 | 71,074 |
| Shower Timer | 56,425 | 100% | 56,425 | 1.00 | 56,425 |
| Self-Adhesive Door Sweep | 45,385 | 100% | 45,385 | 1.00 | 45,385 |
| Low Flow Aerators (Bathroom) | 14,649 | 100% | 14,649 | 1.00 | 14,649 |
| Low Flow Aerators (Kitchen) | 12,114 | 100% | 12,114 | 1.00 | 12,114 |
| Outlet Gasket | 9,107 | 100% | 9,107 | 1.00 | 9,107 |
| Switch Gasket | 9,107 | 100% | 9,107 | 1.00 | 9,107 |
| **Total or Weighted Average** | | | **548,595** | **100%** | **548,595** | **1.00** | **548,595** |

\* Realization Rate (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 web site: https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/.

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

The NSG program includes eleven measures as shown in the following table. The low flow showerheads and rope caulk (30’) measures contributed the most savings.

Table 4‑2. 2023 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† | Verified Net Savings (Therms) |
| Community Joint Kits | Income Eligible | Low Flow Showerheads | 5,929 | 100% | 5,929 | 1.00 | 5,929 |
| Rope Caulk (30') | 5,781 | 100% | 5,781 | 1.00 | 5,781 |
| V-Seal Weatherstripping Roll (17') | 5,137 | 100% | 5,137 | 1.00 | 5,137 |
| Closed Foam Weatherstripping (17' Roll) | 5,137 | 100% | 5,137 | 1.00 | 5,137 |
| Window Insulation Kit | 4,618 | 100% | 4,618 | 1.00 | 4,618 |
| Shower Timer | 4,004 | 100% | 4,004 | 1.00 | 4,004 |
| Self-Adhesive Door Sweep | 2,948 | 100% | 2,948 | 1.00 | 2,948 |
| Low Flow Aerators (Bathroom) | 1,037 | 100% | 1,037 | 1.00 | 1,037 |
| Low Flow Aerators (Kitchen) | 860 | 100% | 860 | 1.00 | 860 |
| Outlet Gasket | 593 | 100% | 593 | 1.00 | 593 |
| Switch Gasket | 593 | 100% | 593 | 1.00 | 593 |
| **Total or Weighted Average** | | | **36,638** | **100%** | **36,638** | **1.00** | **36,638** |

\* Realization Rate (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 web site: https://www.ilsag.info/evaluator-ntg-recommendations-for-2023/.

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

# Impact Analysis Findings and Recommendations

The Community Joint Kits program achieved a 100% realization rate (RR) for CY2023. The ex ante savings matched the verified savings for each measure and the entire kit.

## 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 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 5‑1. Verified Gross Savings Parameters

| **Measure** | **Unit Basis** | **Ex Ante Gross (therms/unit)** | **Verified Gross (therms/unit)** | **Realization Rate** | **Data Source(s)** |
| --- | --- | --- | --- | --- | --- |
| **PGL Community Joint Kits** |  |  |  |  |  |
| Rope Caulk (30') | Ln Ft | 4.14 | 4.14 | 100% | Illinois TRM, v11.0†, Section 5.6.1 and PTD\* |
| Low Flow Showerheads | Each | 3.89 | 3.89 | 100% | Illinois TRM, v11.0, Section 5.4.5 and PTD |
| V-Seal Weatherstripping Roll (17') | Ln Ft | 3.68 | 3.68 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Closed Foam Weatherstripping (17' Roll) | Ln Ft | 3.68 | 3.68 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Window Insulation Kit | Sq Ft | 3.31 | 3.31 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Shower Timer | Each | 2.63 | 2.63 | 100% | Illinois TRM, v11.0, Section 5.4.9 and PTD |
| Self-Adhesive Door Sweep | Each | 2.11 | 2.11 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Low Flow Aerators (Bathroom) | Each | 0.34 | 0.34 | 100% | Illinois TRM, v11.0, Section 5.4.4. and PTD |
| Low Flow Aerators (Kitchen) | Each | 0.56 | 0.56 | 100% | Illinois TRM, v11.0, Section 5.4.4 and PTD |
| Outlet Gasket | Each | 0.11 | 0.11 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Switch Gasket | Each | 0.11 | 0.11 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| **NSG Community Joint Kits** |  |  |  |  |  |
| Low Flow Showerheads | Each | 4.68 | 4.68 | 100% | Illinois TRM, v11.0†, Section 5.4.5 and PTD\* |
| Rope Caulk (30') | Ln Ft | 4.56 | 4.56 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| V-Seal Weatherstripping Roll (17') | Ln Ft | 4.05 | 4.05 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Closed Foam Weatherstripping (17' Roll) | Ln Ft | 4.05 | 4.05 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Window Insulation Kit | Sq Ft | 3.64 | 3.64 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Shower Timer | Each | 3.16 | 3.16 | 100% | Illinois TRM, v11.0, Section 5.4.9 and PTD |
| Self-Adhesive Door Sweep | Each | 2.33 | 2.33 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Low Flow Aerators (Bathroom) | Each | 0.41 | 0.41 | 100% | Illinois TRM, v11.0, Section 5.4.4. and PTD |
| Low Flow Aerators (Kitchen) | Each | 0.68 | 0.68 | 100% | Illinois TRM, v11.0, Section 5.4.4 and PTD |
| Outlet Gasket | Each | 0.12 | 0.12 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |
| Switch Gasket | Each | 0.12 | 0.12 | 100% | Illinois TRM, v11.0, Section 5.6.1 and PTD |

\* Program Tracking Data (PTD) provided by Peoples Gas and North Shore Gas; extract dated January 30, 2024.

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

*Source: Guidehouse evaluation team analysis*

## Findings and Recommendations

The overall RR for therms savings was 100%. Guidehouse verified all measure savings and did not find any discrepancies with the savings for both PGL and NSG programs. There are no findings and recommendations based on the evaluation of the 2023 program activity.

##### Impact Analysis Methodology

The evaluation team verified unit savings for each program measure using the impact algorithm sources found in the Illinois Statewide Technical Reference Manual v11.0 (IL-TRM)[[1]](#footnote-1). Table A‑1 presents the key parameters and the references used in the verified gross and net savings calculations.

Table A‑1. Impact Parameters

|  |  |  |
| --- | --- | --- |
| Gross Savings Input Parameters | Deemed Input Parameters | Source\* |
| Closed Foam Weatherstripping (17' Roll) | ADJRxAirsealing, ISR, %FossilHeat, Δtherms\_wx, %SF, %MF | IL-TRM, v11.0, Section 5.6.1 |
| V-Seal Weatherstripping Roll (17') | ADJRxAirsealing, ISR, %FossilHeat, Δtherms\_wx, %SF, %MF | IL-TRM, v11.0, Section 5.6.1 |
| Self-Adhesive Door Sweep | ADJRxAirsealing, ISR, %FossilHeat, Δtherms\_sweep, %SF, %MF | IL-TRM, v11.0, Section 5.6.1 |
| Rope Caulk (30') | ADJRxAirsealing, ISR, %FossilHeat, Δtherms\_sealing, %SF, %MF | IL-TRM, v11.0, Section 5.6.1 |
| Window Insulation Kit | ADJRxAirsealing, ISR, %FossilHeat, Δtherms\_windows, %SF, %MF | IL-TRM, v11.0, Section 5.6.1 |
| Shower Timer | L\_base, Showers per capita per day (SPCD), GPH, EPG\_gas, %FossilDHW, GPM, L\_timer, Household, Usage Factor, %SF, %MF | IL-TRM, v11.0, Section 5.4.9 |
| Low Flow Showerheads | GPM\_base, GPM\_low, L\_base, L\_low, Showerheads per household (SPH), showers per capita per day (SPCD), EPG\_gas, %FossilDHW, Household, ISR, %SF, %MF | IL-TRM, v11.0, Section 5.4.5 |
| Low Flow Aerators (Bathroom) | GPM\_base, GPM\_low, L\_base, L\_low, faucets per household (FPH), drain factor (DF), EPG\_gas, %FossilDHW, Household, ISR, %SF, %MF | IL-TRM, v11.0, Section 5.4.4 |
| Low Flow Aerators (Kitchen) | GPM\_base, GPM\_low, L\_base, L\_low, faucets per household (FPH), drain factor (DF), EPG\_gas, %FossilDHW, Household, ISR, %SF, %MF | IL-TRM, v11.0, Section 5.4.4 |
| Outlet Gasket | ADJ\_RxAirsealing, ISR, Δthermsgasket, %FossilHeat, %SF, %MF | IL-TRM, v10.0, Section 5.6.1 |
| Switch Gasket | ADJ\_RxAirsealing, ISR, Δthermsgasket, %FossilHeat, %SF, %MF | IL-TRM, v10.0, Section 5.6.1 |

\* State of Illinois Technical Reference Manual version 11.0 from <http://www.ilsag.info/technical-reference-manual.html>

GPH – Gallons per hour

DHW – Domestic hot water

GPM – Gallons per minute

SF – Single family

MF – Multi family

ISR – In-service rate

Source: Guidehouse evaluation team analysis.

##### 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 | Units | Quantity | Effective Useful Life | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| Community Joint Kits | Income Eligible | Rope Caulk (30') | Ln Ft | 644,370 | 20 | 89,009 | 89,009 | 89,009 |
| Low Flow Showerheads | Each | 21,479 | 10 | 83,553 | 83,553 | 83,553 |
| V-Seal Weatherstripping Roll (17') | Ln Ft | 365,143 | 20 | 79,086 | 79,086 | 79,086 |
| Closed Foam Weatherstripping (17' Roll) | Ln Ft | 365,143 | 20 | 79,086 | 79,086 | 79,086 |
| Window Insulation Kit | Sq Ft | 1,202,824 | 1 | 71,074 | 71,074 | 71,074 |
| Shower Timer | Each | 21,479 | 2 | 56,425 | 56,425 | 56,425 |
| Self-Adhesive Door Sweep | Each | 21,479 | 20 | 45,385 | 45,385 | 45,385 |
| Low Flow Aerators (Bathroom) | Each | 42,958 | 10 | 14,649 | 14,649 | 14,649 |
| Low Flow Aerators (Kitchen) | Each | 21,479 | 10 | 12,114 | 12,114 | 12,114 |
| Outlet Gasket | Each | 85,916 | 20 | 9,107 | 9,107 | 9,107 |
| Switch Gasket | Each | 85,916 | 20 | 9,107 | 9,107 | 9,107 |
| **Total or Weighted Average** | | |  | **2,878,186** | **13.7** | **548,595** | **548,595** | **548,595** |

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

Table B‑2. Verified Cost Effectiveness Inputs – NSG

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Program Category | Program Path | Savings Category | Units | Quantity | Effective Useful Life | Ex Ante Gross Savings (Therms) | Verified Gross Savings (Therms) | Verified Net Savings (Therms) |
| Community Joint Kits | Income Eligible | Low Flow Showerheads | Each | 1,268 | 10 | 5,929 | 5,929 | 5,929 |
| Rope Caulk (30') | Ln Ft | 38,040 | 20 | 5,781 | 5,781 | 5,781 |
| V-Seal Weatherstripping Roll (17') | Ln Ft | 21,556 | 20 | 5,137 | 5,137 | 5,137 |
| Closed Foam Weatherstripping (17' Roll) | Ln Ft | 21,556 | 20 | 5,137 | 5,137 | 5,137 |
| Window Insulation Kit | Sq Ft | 71,008 | 1 | 4,618 | 4,618 | 4,618 |
| Shower Timer | Each | 1,268 | 2 | 4,004 | 4,004 | 4,004 |
| Self-Adhesive Door Sweep | Each | 1,268 | 20 | 2,948 | 2,948 | 2,948 |
| Low Flow Aerators (Bathroom) | Each | 2,536 | 10 | 1,037 | 1,037 | 1,037 |
| Low Flow Aerators (Kitchen) | Each | 1,268 | 10 | 860 | 860 | 860 |
| Outlet Gasket | Each | 5,072 | 20 | 593 | 593 | 593 |
| Switch Gasket | Each | 5,072 | 20 | 593 | 593 | 593 |
| **Total or Weighted Average** | | |  | **169,912** | **13.5** | **36,638** | **36,638** | **36,638** |

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

1. In this report, unless stated otherwise, IL-TRM refers to version 11.0 (v11.0). [↑](#footnote-ref-1)