



Elementary Energy Education Kits Program Impact Evaluation Report

Energy Efficiency Plan: Program Year 2025
(01/01/2025-12/31/2025)

Prepared for:

Nicor Gas Company



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Table of Contents

1	Introduction	1
2	Program Description.....	1
3	Program Savings Detail.....	2
4	Program Savings by Measure.....	3
5	Impact Analysis Findings and Recommendations	5
5.1	Impact Parameter Estimates.....	5
5.2	Findings and Recommendations	6
	Appendix A. Impact Analysis Methodology.....	7
	Appendix B. Program Specific Inputs for the Illinois TRC.....	9

Table of Tables, Figures, and Equations

Table 1.	2025 Volumetric Findings Detail.....	1
Table 2.	2025 Installed Measure Quantities	1
Table 3.	2025 Annual Energy Savings Summary	3
Table 4.	2025 Annual Energy Savings by Measure	3
Table 5.	Verified Gross Savings Parameters	5
Table 6.	Kit Contents	7
Table 7.	Verified Cost Effectiveness Inputs	9

1 Introduction

This report presents the results of the impact evaluation of the Nicor Gas 2025 Elementary Energy Education (EEE) 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 the inputs for cost-effectiveness analysis. Program year 2025 covers January 1 to December 31, 2025.

2 Program Description

The EEE Kits program is offered jointly to schools served by Nicor Gas and ComEd. Nicor Gas claimed all gas savings, and ComEd claimed all electricity savings from the Income Eligible (IE) and Market Rate (MR) kits sent to the joint utility customers. Nicor Gas also offered this program to schools served by Nicor Gas and an electricity provider other than ComEd (Market Rate Gas Only), as well as jointly with Ameren Illinois under the Income Eligible Student Elementary Education Kits (SEEK IE Kits) program name.

The program had 9,652 participants in 2025 and distributed 129,210 measures, as shown in Table 1.

Table 1. 2025 Volumetric Findings Detail

Participation	Joint IE	SEEK IE	Joint Market Rate	Market Rate Gas Only	Total
Participants*	1,750	1,488	6,009	405	9,652
Distributed Measures†	15,750	56,544	54,081	2,835	129,210
Measure Types Installed ‡	8	8	8	6	10

* Participants are defined as number of kits distributed.

† Distributed Measures is the total quantity of measures distributed.

‡ Measure types installed are the distinct count of Nicor measures; total reflects unique measures across paths

Source: Nicor Gas tracking data and evaluation team analysis.

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

Table 2. 2025 Installed Measure Quantities

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)
Joint IE	Low-Flow Showerhead	Unit	1,750
	Kitchen Aerator	Unit	1,750
	Bathroom Aerator	Unit	3,500
	Shower Timer	Unit	1,750
	Temperature Setback Card	Unit	1,750
	Self-Adhesive Door Sweep	Unit	1,750
	Window Insulation Kit (5-pack)	Unit	1,750

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)
SEEK IE	Closed-Cell Foam Weatherstripping Roll (17')	Unit	1,750
	1/2" Pipe Insulation (6')	Unit	1,488
	Bathroom Aerator	Unit	1,488
	Kitchen Aerator	Unit	1,488
	Shower Timer	Unit	1,488
	Low-Flow Showerhead	Unit	1,488
	Self-Adhesive Door Sweep	Unit	1,488
	Weatherstripping (17')	Unit	1,488
	Outlet Gaskets	Unit	14,880
	Joint Market Rate	Low-Flow Showerhead	Unit
Kitchen Aerator		Unit	6,009
Bathroom Aerator		Unit	12,018
Shower Timer		Unit	6,009
Temperature Setback Card		Unit	6,009
Self-Adhesive Door Sweep		Unit	6,009
Window Insulation Kit (5-pack)		Unit	6,009
Market Rate Gas Only	Closed-Cell Foam Weatherstripping Roll (17')	Unit	6,009
	Window Insulation Kit (5-pack)	Unit	405
	Bathroom Aerator	Unit	810
	Low-Flow Showerhead	Unit	405
	Shower Timer	Unit	405
	Kitchen Aerator	Unit	405
	Temperature Setback Card	Unit	405

Source: Nicor Gas tracking data and evaluation team analysis.

3 Program Savings Detail

Table 3 summarizes the energy savings the EEE Kits Program achieved by path in 2025.

Table 3. 2025 Annual Energy Savings Summary

Program Path	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
Joint IE	43,435	100%	43,615	1.00	1.000	43,615
SEEK IE	45,444	100%	45,442	1.00	1.000	45,442
Joint Market Rate	151,637	100%	152,256	1.00	1.048	159,564
Market Rate Gas Only	8,829	92%	8,089	1.00	1.048	8,478
Total	249,345	100%	249,402	1.00	1.048	257,099

Note: Savings and realization rates presented in this table are subject to rounding and may not sum precisely to totals or reproduce verified savings.

* 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-2025/>.

‡ The market rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.048.

Source: Evaluation team analysis.

4 Program Savings by Measure

The EEE Kits Joint program (IE and MR) and SEEK Kits include eight measures and the EEE Kits Gas Only program includes six measures as shown in Table 4. The window insulation kit (5-pack) and low flow showerheads measures contributed the most savings to joint kits. The low flow showerhead and shower timer measures contributed the most savings to gas only kits.

Table 4. 2025 Annual Energy Savings by Measure

Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
Joint IE	Low-Flow Showerhead	12,047	100%	12,047	1.00	N/A	12,047
	Kitchen Aerator	1,603	100%	1,603	1.00	N/A	1,603
	Bathroom Aerator	1,936	100%	1,936	1.00	N/A	1,936
	Shower Timer	6,804	100%	6,804	1.00	N/A	6,804
	Temperature Setback Card	238	176%	418	1.00	N/A	418
	Self-Adhesive Door Sweep	5,187	100%	5,187	1.00	N/A	5,187
	Window Insulation Kit (5-pack)	9,739	100%	9,739	1.00	N/A	9,739
	Closed-Cell Foam Weatherstripping Roll (17')	5,882	100%	5,882	1.00	N/A	5,882

Program Path	Savings Category	Ex Ante Gross Savings (Therms)	Verified Gross RR*	Verified Gross Savings (Therms)	NTG†	NPSO‡	Verified Net Savings (Therms)
Joint IE Subtotal		43,435	100%	43,615			43,615
SEEK Kits IE	1/2" Pipe Insulation (6')	4,587	100%	4,586	1.00	N/A	4,586
	Bathroom Aerator	1,236	100%	1,236	1.00	N/A	1,236
	Kitchen Aerator	9,758	100%	9,758	1.00	N/A	9,758
	Shower Timer	6,063	100%	6,063	1.00	N/A	6,063
	Showerhead	13,815	100%	13,815	1.00	N/A	13,815
	Self-Adhesive Door Sweep	3,760	100%	3,760	1.00	N/A	3,760
	Weatherstripping (17')	4,278	100%	4,278	1.00	N/A	4,278
	Outlet Gaskets	1,947	100%	1,947	1.00	N/A	1,947
SEEK Kits IE Subtotal		45,444	100%	45,442			45,442
Joint Market Rate	Low-Flow Showerhead	38,812	100%	38,812	1.00	1.048	40,675
	Kitchen Aerator	5,162	100%	5,162	1.00	1.048	5,409
	Bathroom Aerator	6,237	100%	6,237	1.00	1.048	6,537
	Shower Timer	21,921	100%	21,921	1.00	1.048	22,973
	Temperature Setback Card	817	176%	1,436	1.00	1.048	1,505
	Self-Adhesive Door Sweep	19,613	100%	19,613	1.00	1.048	20,555
	Window Insulation Kit (5-pack)	36,835	100%	36,835	1.00	1.048	38,603
	Closed-Cell Foam Weatherstripping Roll (17')	22,239	100%	22,239	1.00	1.048	23,307
Joint Market Rate Subtotal		151,637	100%	152,256			159,564
Market Rate Gas Only	Window Insulation Kit (5-pack)	3,132	92%	2,869	1.00	1.048	3,007
	Bathroom Aerator	483	92%	442	1.00	1.048	463
	Low-Flow Showerhead	3,005	92%	2,754	1.00	1.048	2,886
	Shower Timer	1,697	92%	1,555	1.00	1.048	1,630
	Kitchen Aerator	400	92%	367	1.00	1.048	384
	Temperature Setback Card	112	92%	102	1.00	1.048	107
Market Rate Gas Only Subtotal		8,829	92%	8,089			8,478
Total		249,345	100%	249,402			257,099

Note: Savings and realization rates presented in this table are subject to rounding and may not sum precisely to totals or reproduce verified savings.

* 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-2025/>.

‡ The market-rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.048.

Source: Evaluation team analysis.

5 Impact Analysis Findings and Recommendations

5.1 Impact Parameter Estimates

Table 5 shows the unit therm savings and realization rate findings by measure. 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%.

Table 5. Verified Gross Savings Parameters

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Illinois TRM, v13.0 Section †
Joint IE					
Low-Flow Showerhead	Unit	6.88	6.88	100%	5.4.5
Kitchen Aerator	Unit	0.92	0.92	100%	5.4.4
Bathroom Aerator	Unit	0.55	0.55	100%	5.4.4
Shower Timer	Unit	3.89	3.89	100%	5.4.9
Temperature Setback Card	Unit	0.14	0.24	176%	5.4.6
Self-Adhesive Door Sweep	Unit	2.96	2.96	100%	5.6.1
Window Insulation Kit (5-pack)	Unit	5.57	5.57	100%	5.6.1
Closed-Cell Foam Weatherstripping Roll (17')	Unit	3.36	3.36	100%	5.6.1
SEEK IE					
1/2" Pipe Insulation (6')	Unit	3.08	3.08	100%	5.4.5
Bathroom Aerator	Unit	0.83	0.83	100%	5.4.4
Kitchen Aerator	Unit	6.56	6.56	100%	5.4.4
Shower Timer	Unit	4.07	4.07	100%	5.4.9
Low-Flow Showerhead	Unit	9.28	9.28	100%	5.4.6
Self-Adhesive Door Sweep	Unit	2.53	2.53	100%	5.6.1
Weatherstripping (17')	Unit	2.87	2.87	100%	5.6.1
Outlet Gaskets	Unit	0.13	0.13	100%	5.6.1
Joint Market Rate					
Low-Flow Showerhead	Unit	6.46	6.46	100%	5.4.5
Kitchen Aerator	Unit	0.86	0.86	100%	5.4.4
Bathroom Aerator	Unit	0.52	0.52	100%	5.4.4
Shower Timer	Unit	3.65	3.65	100%	5.4.9
Temperature Setback Card	Unit	0.14	0.24	176%	5.4.6
Self-Adhesive Door Sweep	Unit	3.26	3.26	100%	5.6.1
Window Insulation Kit (5-pack)	Unit	6.13	6.13	100%	5.6.1
Closed-Cell Foam Weatherstripping Roll (17')	Unit	3.70	3.70	100%	5.6.1
Market Rate Gas Only					
Window Insulation Kit (5-pack)	Unit	7.73	7.09	92%	5.6.1
Bathroom Aerator	Unit	0.60	0.55	92%	5.4.4
Low-Flow Showerhead	Unit	7.42	6.80	92%	5.4.5
Shower Timer	Unit	4.19	3.84	92%	5.4.9

Measure	Unit Basis	Ex Ante Gross (therms/unit)	Verified Gross (therms/unit)	Realization Rate	Illinois TRM, v13.0 Section †
Kitchen Aerator	Unit	0.99	0.91	92%	5.4.4
Temperature Setback Card	Unit	0.28	0.25	92%	5.4.6

† State of Illinois Technical Reference Manual version 13.0 from <http://www.ilsag.info/technical-reference-manual.html>.
 Source: Program tracking data and evaluation team analysis.

5.2 Findings and Recommendations

The evaluation team developed findings and recommendations based on the 2025 evaluation, organized by kit type in the following section.

Finding 1. The ex ante savings for Market Rate Gas Only kits applied deemed input parameters (Fuel splits and Household Factors) corresponding to income eligible measures. The evaluation team applied input parameters corresponding to market rate measures, resulting in a 92% realization rate.

Recommendation 1. Apply input parameters corresponding to market rate measures for market rate kits.

Finding 2. For the Temperature Setback Card measure in Joint IE and MR kits, the ex ante measure workbook applied deemed fossil fuel savings from IL-TRM v13.0 corresponding to an “Other” system type (i.e., fuel types other than electric or gas, such as fuel oil). In contrast, the evaluation team calculated therm savings using the algorithm in Section 5.4.6 of IL-TRM v13.0, based on the pre and post hot water setpoint temperatures applicable to Gas systems. This change led to a measure level RR of 176% for Temperature Setback Cards.

Recommendation 2. Use pre and post hot water temperature setpoints corresponding to gas systems.

Appendix A. Impact Analysis Methodology

The evaluation team used the same impact methodology for each program path. 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 v13.0 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.
- 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 an NTG ratio. In Program Year 2025, the Illinois SAG consensus process established an NTG value of 1.0 for the Elementary Energy Education program, which the evaluation team applied consistently to all kits.
- Guidehouse sourced methodologies and assumptions from the Illinois IL-TRM v13.0, measure workbooks, and the final 2025 tracking data.
- The market-rate net savings were multiplied by a residential non-participant spillover (NPSO) factor of 1.048.

Table 6 presents the measure composition of each kit, including the quantity of each measure included per kit.

Table 6. Kit Contents

Program Path	Gross Savings Input Parameters	Quantity Per Kit
Joint IE and Joint MR	Low-Flow Showerhead	1
	Kitchen Aerator	1
	Bathroom Aerator	2
	Shower Timer	1
	Temperature Setback Card	1
	Self-Adhesive Door Sweep	1
	Window Insulation Kit (5-pack)	1
	Closed-Cell Foam	1
	Weatherstripping Roll (17')	1
	1/2" Pipe Insulation (6')	1
SEEK Kits IE	Bathroom Aerator	1
	Kitchen Aerator	1
	Shower Timer	1
	Low-Flow Showerhead	1
	Self-Adhesive Door Sweep	1
	Weatherstripping (17')	1
	Outlet Gaskets	10
Market Rate Gas Only	Window Insulation Kit (5-pack)	1

Program Path	Gross Savings Input Parameters	Quantity Per Kit
	Bathroom Aerator	2
	Low-Flow Showerhead	1
	Shower Timer	1
	Kitchen Aerator	1
	Temperature Setback Card	1

Source: Program tracking data and evaluation team analysis.

Appendix B. Program Specific Inputs for the Illinois TRC

Table 7 shows the Total Resource Cost (TRC) cost-effectiveness analysis inputs available at the time of producing this impact evaluation report. 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 7. Verified Cost Effectiveness Inputs

Program Path	Savings Category	DAC Project	Units	Quantity	Effective Useful Life	Replacement Flag	Verified Gross Annual Ex Ante Gross Verified Gross Verified Net	Water Savings (Therms)	Savings (Therms)	Savings (Therms)
							Water Savings (Gallons)			
Joint IE	Low-Flow Showerhead	FALSE	Unit	1,750	10.00	NO		12,047	12,047	12,047
	Kitchen Aerator	FALSE	Unit	1,750	10.00	NO	370,687	1,603	1,603	1,603
	Bathroom Aerator	FALSE	Unit	3,500	10.00	NO		1,936	1,936	1,936
	Shower Timer	FALSE	Unit	1,750	2.00	NO		6,804	6,804	6,804
	Temperature Setback Card	FALSE	Unit	1,750	2.00	NO		238	418	418
	Self-Adhesive Door Sweep	FALSE	Unit	1,750	20.00	NO		5,187	5,187	5,187
	Window Insulation Kit (5-pack)	FALSE	Unit	1,750	1.00	NO		9,739	9,739	9,739
	Closed-Cell Foam Weatherstripping Roll (17')	FALSE	Unit	1,750	20.00	NO		5,882	5,882	5,882
SEEK IE	1/2" Pipe Insulation (6')	FALSE	Unit	1,488	10.00	NO		4,587	4,586	4,586
	Bathroom Aerator	FALSE	Unit	1,488	10.00	NO		1,236	1,236	1,236
	Kitchen Aerator	FALSE	Unit	1,488	10.00	NO		9,758	9,758	9,758
	Shower Timer	FALSE	Unit	1,488	2.00	NO		6,063	6,063	6,063
	Low-flow Showerhead	FALSE	Unit	1,488	2.00	NO		13,815	13,815	13,815
	Self-Adhesive Door Sweep	FALSE	Unit	1,488	20.00	NO		3,760	3,760	3,760
	Weatherstripping (17')	FALSE	Unit	1,488	1.00	NO		4,278	4,278	4,278
	Outlet Gaskets	FALSE	Unit	14,880	20.00	NO		1,947	1,947	1,947

Program Path	Savings Category	DAC Project	Units	Quantity	Effective Useful Life	Replacement Flag	Early Gross Annual Ex Ante Gross Verified Gross Verified Gross	Water Savings (Therms)	Ex Ante Savings (Therms)	Verified Savings (Therms)	Net Savings (Therms)
							Water Savings (Gallons)				
Joint Market Rate	Low-Flow Showerhead	FALSE	Unit	6,009	10.00	NO		38,812		38,812	40,675
	Kitchen Aerator	FALSE	Unit	6,009	10.00	NO	1,194,199	5,162		5,162	5,409
	Bathroom Aerator	FALSE	Unit	12,018	10.00	NO		6,237		6,237	6,537
	Shower Timer	FALSE	Unit	6,009	2.00	NO		21,921		21,921	22,973
	Temperature Setback Card	FALSE	Unit	6,009	2.00	NO		817		1,436	1,505
	Self-Adhesive Door Sweep	FALSE	Unit	6,009	20.00	NO		19,613		19,613	20,555
	Window Insulation Kit (5-pack)	FALSE	Unit	6,009	1.00	NO		36,835		36,835	38,603
	Closed-Cell Foam Weatherstripping Roll (17')	FALSE	Unit	6,009	20.00	NO		22,239		22,239	23,307
Market Rate Gas Only	Window Insulation Kit (5-pack)	FALSE	Unit	405	1.00	NO		3,132		2,869	3,007
	Bathroom Aerator	FALSE	Unit	810	10.00	NO	115,819	483		442	463
	Low-Flow Showerhead	FALSE	Unit	405	10.00	NO	505,770	3,005		2,754	2,886
	Shower Timer	FALSE	Unit	405	2.00	NO	287,478	1,697		1,555	1,630
	Kitchen Aerator	FALSE	Unit	405	10.00	NO	80,488	400		367	384
	Temperature Setback Card	FALSE	Unit	405	2.00	NO		112		102	107
Total or Weighted Average					8.74		2,554,440	249,345		249,402	257,099

Note: Savings and realization rates presented in this table are subject to rounding and may not sum precisely to totals or reproduce verified savings.

Source: Evaluation team analysis.