Guidehouse

North Shore Gas 2022-2025 Summary Impact and Cost Effectiveness Evaluation Report

Fourth Energy Efficiency Plan (Plan 4):

Gas Program Years 2022-2025

(01/01/2022-12/31/2025)

Prepared for:

North Shore Gas Company

NORTH SHORE GAS

FINAL

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1 Introduction

This report provides Guidehouse's summary reporting of verified energy savings and cost effectiveness results for the North Shore Gas Energy Efficiency Plan (EEPS) portfolio of programs for 2022 through 2025 (Plan 4). The report fulfills the Illinois Public Utilities Act (PUA) requirement for a review of the 4-year results of the broader net program impacts for Program Year 2022 (PY2022) starting on January 1, 2022, through Program Year 2025 (PY2025) which ended on December 31, 2025. In Plan 4, North Shore Gas implemented 17 programs for which final impact evaluation reports have been submitted by Guidehouse to North Shore Gas and the Illinois Commerce Commission (ICC).

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2 Portfolio Summary

2.1 Portfolio Net Energy Savings Verified Results

Table 1 and Table 2 summarize the incremental energy savings the North Shore Gas portfolio achieved in PY2022-PY2025. The 4-year verified first-year annual net savings of 7,192,174 therms[1] exceeded its Plan 4 Approved Net Energy Savings Goal[2] of 6,611,648 net therms by nine percent.

Table 1. North Shore Gas Plan 4 Portfolio - Verified Net Energy Savings

Program Year	Verified Net Energy Savings (Annual Therms)
Program Year 2022	1,652,678
Program Year 2023	1,998,927
Program Year 2024	1,770,423
Program Year 2025	1,770,146
Plan 4 Portfolio Verified Total	**7,192,174**
Plan 4 Compliance Goal	**6,248,466**
Portfolio Percent of Compliance Goal	**115%**
Plan 4 Approved Goal	**6,611,648**
Portfolio Percent of Approved Goal	**109%**

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

Table 2. Total Incremental Annual Savings (PY2022-PY2025)

Savings Category	2022 Energy Savings (Therms)	2023 Energy Savings (Therms)	2024 Energy Savings (Therms)	2025 Energy Savings (Therms)	2022-2025 Total (Therms)
Ex Ante Gross Savings	1,864,159	2,207,776	1,883,105	1,978,625	7,933,665
Portfolio Gross Realization Rate*	0.99	0.99	1.00	0.95	0.99
Verified Gross Savings	1,844,676	2,195,425	1,886,956	1,888,375	7,815,433
Portfolio Net-to-Gross Ratio (NTG) †	0.90	0.91	0.94	0.94	0.92
Verified Net Savings	1,652,678	1,998,927	1,770,423	1,770,146	7,192,174

** Realization Rate (RR) is the ratio of verified gross savings to ex ante gross savings, based on evaluation research findings.*
† Guidehouse calculated the portfolio NTG ratio by dividing the total net savings by the total verified gross savings.
Source: North Shore Gas tracking data and evaluation team analysis.

[1] Unless noted, therm values are first year annual savings.
[2] The Approved Net Energy Savings Goal (Approved Goal) refers to the most updated portfolio-level savings goal. In the case of Section 8-104 programs, the values match the Adjusted Energy Savings Goal contained in the Program Administrator's updated 2025 Adjustable Savings Goal Template. The Original Plan Savings Goal (Compliance Goal) approved in the Commission's Final Order submitted in Docket 21-0154 for 2022 through 2025 is 6,611,648 annual net therm savings.

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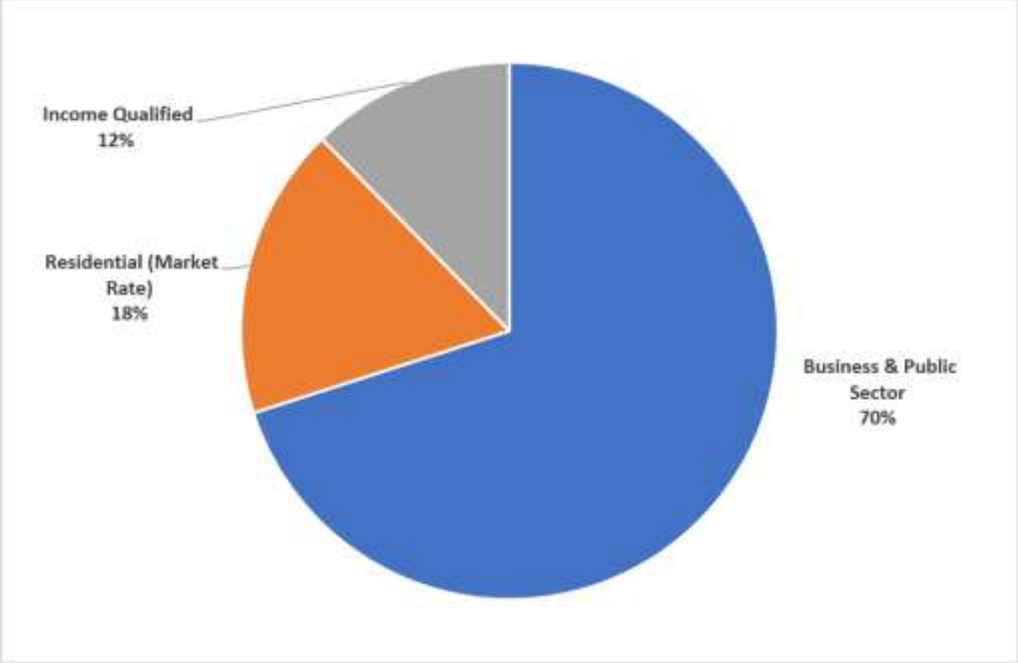
Table 3 shows the total savings realized by sector. Over the 4-year period, the Business and Public Sector programs produced 70% of the portfolio net savings, Residential Market Rate programs contributed 18%, and the Income Qualified programs contributed 12% (see Figure 1).

Table 3. Total Incremental Annual Savings by Sector (2022-2025)

Savings Category	2022 Net Savings (Therms)	2023 Net Savings (Therms)	2024 Net Savings (Therms)	2025 Net Savings (Therms)	2022-2025 Net Total (Therms)
Business & Public Sector	1,268,583	1,164,011	1,321,009	1,285,464	5,039,067
Residential (Market Rate)	320,809	324,024	282,162	341,305	1,268,299
Income Qualified	63,286	510,893	167,252	143,378	884,808
Total Net Savings	1,652,678	1,998,927	1,770,423	1,770,146	7,192,174

Source: North Shore Gas tracking data and evaluation team analysis. Numbers are rounded.

Figure 1. Annual Incremental Therms Savings by Sector (2022-2025)



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

2.2 Portfolio Cost Effectiveness Test Verified Results

This section summarizes findings regarding the cost-effectiveness of the North Shore Gas portfolio of energy efficiency programs over Plan 4, from PY2022 through PY2025. The cost effectiveness methodology and description of data inputs are provided in the Appendix.

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Table 4 summarizes the four-year combined results for the North Shore Gas portfolio at the program, sector, and portfolio levels. The results presented in this table are based on the Illinois Total Resource Cost (TRC) test, which includes benefits from avoided environmental and societal costs, and is the primary test defined by the Climate and Equitable Jobs Act (CEJA) for ascertaining the portfolio's cost effectiveness. The table also shows results for the Program Administration Cost test (PACT).

Throughout all four program years, the results indicate that the Plan 4 portfolio was cost effective, achieving a TRC ratio of 3.5 (including societal non-energy impacts (NEIs)) and 1.4 (excluding societal NEIs). The TRC with NEI without income qualified is 3.6, and the TRC without NEI and income qualified is 1.4.

Table 4. Portfolio Cost Effectiveness Test Results (2022-2025)

Program*	Verified Net Savings (Therms)	TRC Test (w/ NEI)	TRC Test (w/o NEI)	PACT Test (w/ NEI)	PACT Test (w/o NEI)
C&I and PS Joint New Construction	38,174	4.2	1.6	4.6	4.6
C&I and PS Retro-Commissioning	16,716	4.3	1.6	11.9	11.9
C&I and PS Custom	387,581	6.0	1.9	2.2	2.2
C&I and PS Prescriptive	3,640,023	4.9	1.8	2.4	2.2
C&I Gas Optimization	135,696	7.1	2.2	1.7	1.7
Small and Midsize Business	820,877	5.0	1.9	1.7	1.6
Strategic Energy Management	-	-	-	-	-
Business and Public Sector Total	**5,039,067**	**5.1**	**1.9**	**2.2**	**2.1**
Elementary Education Kits (EEE)	133,023	8.1	4.6	5.2	1.9
Epic Savers Kit (ESK)	98,079	6.1	2.4	2.0	1.2
Home Energy Jumpstart/Assessment	41,680	2.5	1.2	1.1	0.6
Home Energy Rebates - HVAC, Smart Thermostats, Weatherization	884,853	4.1	1.7	3.3	2.5
Multi-Family Energy Savings	110,663	2.5	1.1	1.1	1.0
Residential Sector Total	**1,268,299**	**4.2**	**1.8**	**2.9**	**2.0**
Community Joint Kits	180,719	10.6	4.8	5.0	2.8
Income Qualified Multi-Family	589,672	2.9	1.3	1.4	1.2
Income Qualified Single Family	58,576	1.1	0.4	0.3	0.2
IQ Elementary Education Kits (IQ EEE)	53,175	6.3	3.5	4.0	1.4
Public Housing Energy Saving (PHES)	2,666	0.2	0.1	0.1	0.1
Income Qualified Total	**884,808**	**3.1**	**1.4**	**1.3**	**1.0**
Portfolio Total, with IQ	**7,192,174**	**3.5**	**1.4**	**1.6**	**1.3**
Portfolio Total, without IQ	**6,307,365**	**3.6**	**1.4**	**1.6**	**1.4**

** C&I – Commercial and Industrial; PS – Public Sector*

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Notes: Totals may not sum due to rounding. This 4-year summary impact and TRC and PACT analysis account for Other Portfolio (Admin) Costs, which had previously been omitted from the Annual Summary Impact Reports.
Source: Evaluation Research

2.3 Portfolio Economic Impact Summary of Verified Results

Table 5 presents the cumulative first year only job impacts. First year impacts[3] are the total direct, indirect, and induced jobs created from portfolio activity in PY2022-PY2025. **Error! Reference source not found.** presents results of the cumulative economic and employment impacts created from portfolio activity in PY2022-PY2025.

Overall, North Shore Gas Plan 4 Energy Efficiency Portfolio created 99 first year jobs, 274 job-years[4] and $81 million dollars of industry output[5] across the state of Illinois.

Table 5. Cumulative First Year Job Impacts – North Shore Gas

Period	Direct	Indirect	Induced	Cumulative Total*
2025 – 2049	11	8	11	30
2024 – 2048	11	8	7	26
2023 – 2047	10	9	3	22
2022 – 2046	11	8	3	21
2021 – 2045	30	13	9	53
2020 – 2044	24	12	6	41
2020 – 2049	**97**	**58**	**38**	**193**

* The 4-year first year only jobs is the sum of the 2022 through 2025 cumulative total jobs (total of 99 jobs).
Source: Guidehouse analysis of North Shore Gas annual evaluation of economic impacts of EE programs.

Table 6. Cumulative Economic Impacts by Time Period (2022 - 2025)

Period	Impact Type	Job Years	Labor Income ($ Million)	Industry Output ($ Million)
2025 – 2049	Direct	16	$1.6	$5.6
	Indirect	12	$1.0	$2.7
	Induced	44	$2.9	$13.2
	Total	**72**	**$5.5**	**$21.5**
2024 – 2048	Direct	16	$1.5	$5.1
	Indirect	11	$0.9	$2.5
	Induced	40	$2.6	$11.9

[3] First year impacts are the total direct, indirect, and induced jobs created from portfolio activity in a particular year.
[4] Job-years are a cumulative measure of employment impact equal to one full-time equivalent job sustained for one year. Under CEJA economic impact analyses, job-years are used to quantify the statewide employment effects generated over time by utility energy efficiency investments and the resulting long-term energy bill savings. The evaluation team advises against use of employment impacts reported in job-years because employment impacts are long-term effects not confined to a particular year, using job-years can be misleading as to the effects produced.
[5] Industry output is the total annual production value of an industry; it can be described as business sales or revenues.

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Period	Impact Type	Job Years	Labor Income ($ Million)	Industry Output ($ Million)
	Total	**66**	**$5.0**	**$19.5**
2023 – 2047	Direct	9	$1.1	$4.3
	Indirect	9	$0.8	$2.1
	Induced	56	$3.7	$17.8
	Total	**74**	**$5.6**	**$24.2**
2022 – 2046	Direct	25	$2.2	$7.2
	Indirect	14	$1.3	$3.3
	Induced	22	$1.5	$5.2
	Total	**62**	**$5.0**	**$15.8**
2021 – 2045	Direct	77	$7.2	$14.4
	Indirect	33	$2.4	$6.5
	Induced	71	$4.0	$14.0
	Total	**181**	**$13.6**	**$34.9**
2020 – 2044	Direct	34	$2.7	$6.9
	Indirect	16	$1.2	$3.1
	Induced	29	$1.6	$5.8
	Total	**80**	**$5.6**	**$15.8**
2020 – 2049	**Cumulative Total**	**535**	**$40.3**	**$131.7**

Note: Totals may not sum due to rounding.
Source: Guidehouse analysis of North Shore Gas annual evaluation of economic impacts of EE programs.

3 Program Specific Results

3.1 Program Specific Verified Savings and Costs Summary

A summary of the components of the verified savings and costs for each program are shown in Table 7 over the four years of Plan 4. The table includes the summary at the sector level as well as the portfolio level total.

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Table 7. Summary of Verified Savings and Program Costs for 2022-2025

Programs	Ex Ante Gross	Realization Rate	Verified Gross		Deemed / Used	Verified Net				Program Costs		Other Energy Benefits		Participation		Verified Gross Weighted Average Measure Life	GHG Savings		Water Savings		Incremental Costs		Net Savings
	Annual Savings	Annual Savings (Verified Gross / Ex Ante Gross)	Annual Savings	Lifetime Savings	Net-to-Gross Ratio	Annual Savings	Lifetime Savings	Cost per Annual Savings	Cost per Lifetime Savings	Non-Incentives	Incentives	Energy Savings	Demand Reductions	# Units	Units Definition	Years	Annual Verified Net CO2 Savings	Lifetime Verified Net CO2 Savings	Annual Verified Net Water Savings	Lifetime Verified Net Water Savings	Gross IMC	Net IMC	
	Therms	%	Therms	Therms	%	Therms	Therms	$/Therms	$/Therms	$	$	kWh	kW				metric tons CO2	metric tons CO2	Gallons	Gallons	$	$	%
(a)	(b)	(c=d/b)	(d)	(e)	(f=g/d)	(g)	(h)	(i=(k+l)/g)	(j=(k+l)/h)	(k)	(l)	(m)	(n)	(o)	(p)	(q=h/g)	(r)	(s)	(t)	(u)	(v)	(w)	(x)
C&I and PS Joint New Construction	79,391	97%	77,085	1,587,947	50%	38,174	786,392	1.15	0.06	21,295	22,473	-	-	8	Projects	20.6	202	4,161	-	-	306,444	158,871	0.5%
C&I and PS Retro-Commissioning	18,919	94%	17,810	152,798	94%	16,716	143,393	0.24	0.03	-	3,955	-	-	5	Projects	8.6	88	759	-	-	35,382	33,792	0.2%
C&I and PS Custom	435,251	102%	443,789	6,723,242	87%	387,581	5,874,369	2.03	0.13	-	787,556	-	-	17	Projects	15.2	2,051	31,081	-	-	1,297,166	1,213,624	5.4%
C&I and PS Prescriptive	3,872,289	101%	3,927,716	22,106,483	93%	3,640,023	20,488,897	0.85	0.15	1,867,780	1,228,617	15,970	-	1,021,144	Projects	5.6	19,259	108,407	11,961,666	72,201,484	2,875,981	2,791,725	50.6%
C&I Gas Optimization	157,021	91%	142,933	2,016,327	95%	135,696	1,928,809	2.43	0.17	-	330,371	-	-	3	Projects	14.2	718	10,205	-	-	330,371	330,371	1.9%
Small and Midsize Business	1,030,650	85%	876,498	6,279,282	94%	820,877	5,868,234	1.46	0.20	749,049	451,269	7,801	0.29	230,598	Projects	7.2	4,343	31,049	3,287,373	20,064,494	620,874	588,001	11.4%
Strategic Energy Management	-	N/A	-	-	N/A	-	-	-	-	18,000	4,900	-	-	-	Projects	-	-	-	-	-	4,900	4,900	0.0%
Business and Public Sector Total	**5,593,522**	**98%**	**5,485,831**	**38,866,079**	**92%**	**5,039,067**	**35,090,095**	**1.09**	**0.16**	**2,656,124**	**2,829,142**	**23,771**	**0.29**	**1,251,775**	**Projects**	**7.0**	**26,662**	**185,662**	**15,249,040**	**92,265,978**	**5,471,117**	**5,121,285**	**70.1%**
Elementary Education Kits (EEE)	126,423	100%	126,568	1,264,422	105%	133,023	1,325,504	1.54	0.15	92,364	112,735	20,138	-	78,772	Projects	10.0	704	7,013	16,898,980	146,322,791	186,416	195,989	1.8%
Epic Savers Kit (ESK)	98,710	97%	95,452	1,105,074	103%	98,079	1,123,808	3.12	0.27	65,090	241,027	45,120	0.09	7,964	Projects	11.5	519	5,946	2,577,162	25,771,618	241,027	241,027	1.4%
Home Energy Jumpstart/Assessment	42,565	100%	42,564	445,294	98%	41,680	436,081	5.16	0.49	108,954	106,033	5,677	-	6,940	Projects	10.5	221	2,307	1,678,785	16,787,851	121,626	122,532	0.6%
Home Energy Rebates - HVAC, Smart Thermostats, Weatherization	1,064,064	99%	1,055,403	15,156,820	84%	884,853	12,610,562	1.84	0.13	692,197	932,532	610,229	1.87	596,416	Projects	14.3	4,682	66,722	-	-	4,922,869	3,642,864	12.3%
Multi-Family Energy Savings	124,901	100%	124,806	1,194,294	89%	110,663	1,064,482	2.96	0.31	200,159	127,556	723	-	118,356	Projects	9.6	586	5,632	752,673	5,822,731	226,365	221,322	1.5%
Residential Sector Total	**1,456,663**	**99%**	**1,444,793**	**19,165,904**	**88%**	**1,268,299**	**16,560,438**	**2.11**	**0.16**	**1,158,762**	**1,519,884**	**681,887**	**1.96**	**808,448**	**Projects**	**13.1**	**6,711**	**87,621**	**21,907,600**	**194,704,990**	**5,698,302**	**4,423,735**	**17.6%**
Community Joint Kits	180,652	100%	180,719	2,405,118	100%	180,719	2,405,118	1.36	0.10	72,969	172,874	23,637	-	221,320	Projects	13.3	956	12,725	20,692,103	182,164,258	255,042	255,042	2.5%
Income Qualified Multi-Family	588,456	100%	589,672	11,101,191	100%	589,672	11,101,191	4.14	0.22	931,601	1,510,657	-	-	1,237,085	Projects	18.8	3,120	58,736	7,246,323	61,483,519	2,751,512	2,751,512	8.2%
Income Qualified Single Family	58,597	100%	58,576	955,080	100%	58,576	955,080	19.35	1.19	549,981	583,305	1,328	0.29	91,574	Projects	16.3	310	5,053	1,102,781	11,027,814	583,305	576,001	0.8%
IQ Elementary Education Kits (IQ EEE)	53,109	100%	53,175	546,952	100%	53,175	546,952	2.14	0.21	65,164	48,483	17,435	-	22,554	Projects	10.3	281	2,894	4,956,013	38,590,989	94,134	94,134	0.7%
Public Housing Energy Saving (PHES)	2,666	100%	2,666	9,041	100%	2,666	9,041	22.72	6.70	45,016	15,568	-	-	116	Projects	3.4	14	48	-	-	19,569	19,569	0.0%
Income Qualified Total	**883,480**	**100%**	**884,808**	**15,017,382**	**100%**	**884,808**	**15,017,382**	**4.52**	**0.27**	**1,664,731**	**2,330,887**	**42,399**	**0.29**	**1,572,649**	**Projects**	**17.0**	**4,682**	**79,457**	**33,997,221**	**293,266,580**	**3,703,562**	**3,696,259**	**12.3%**
Market Development Initiative										**513,977**													
Other Portfolio Costs										**3,565,002**													
Portfolio Total w IQ	**7,933,665**	**99%**	**7,815,433**	**73,049,365**	**92%**	**7,192,174**	**66,667,914**	**$2.26**	**$0.24**	**$9,558,595**	**$6,679,913**	**748,057**	**2.54**	**3,632,872**	**Projects**	**9.3**	**38,054**	**352,740**	**71,153,860**	**580,237,549**	**14,872,982**	**13,241,278**	**100.0%**
Portfolio Total w/o IQ	**7,050,185**	**98%**	**6,930,624**	**58,031,983**	**91%**	**6,307,365**	**51,650,532**	**$1.94**	**$0.24**	**$7,893,865**	**$4,349,026**	**705,658**	**2.25**	**2,060,223**	**Projects**	**8.2**	**33,372**	**273,283**	**37,156,639**	**286,970,969**	**11,169,420**	**9,545,019**	**87.7%**

Notes: Totals may not sum due to rounding. The total Program Cost includes Other Portfolio (Admin) Costs which had previously been omitted from the Annual Summary Impact Reports.
Source: Evaluation summary of analysis of 2022 through 2025 program and portfolio verified summary reports[6]

[6] https://www.ilsag.info/evaluation-documents/final-evaluation-reports/#people

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3.2 Program Specific Cost Effectiveness Results Summary

A summary of the components of the cost effectiveness calculations for each program are shown in Table 8 for the Illinois TRC calculations and Table 9 for the PACT calculations. The tables include the value of each benefit and cost component for each program totaled over the four years. The portfolio results are shown with or without NEI or income qualified.

A summary of the annual reports of the North Shore Gas Illinois TRC and PACT benefits and costs for each program are provided in the accompanied excel spreadsheet for this report.

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Table 8. Summary of Program Level Benefits, Costs and Illinois TRC Test for 2022-2025

Programs	Benefits			Costs			IL Total Resource Cost (TRC) Test w NEIs				IL Total Resource Cost (TRC) Test w/o NEIs			
	Avoided Gas Savings	All Other Benefits w NEI	All Other Benefits w/o NEI	Non-Incentive Costs	Incentive Costs	Incremental Costs	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = (b+c)	(i) = (e+g)	(j) = (h-i)	(k) = (h/i)	(l) = (b+d)	(m) = (e+g)	(n) = (l-m)	(o) = (l/m)
C&I and PS Joint New Construction	$294,482	$454,778	$-	$21,295	$22,473	$158,871	$749,260	$180,166	$569,093	4.2	$294,482	$180,166	$114,315	1.6
C&I and PS Retro-Commissioning	$55,537	$90,931	$-	$-	$3,955	$33,792	$146,468	$33,792	$112,676	4.3	$55,537	$33,792	$21,745	1.6
C&I and PS Custom	$2,322,332	$4,932,762	$-	$-	$787,556	$1,213,624	$7,255,094	$1,213,624	$6,041,471	6.0	$2,322,332	$1,213,624	$1,108,708	1.9
C&I and PS Prescriptive	$7,878,924	$14,985,499	$629,703	$1,867,780	$1,228,617	$2,791,725	$22,864,423	$4,659,506	$18,204,917	4.9	$8,508,628	$4,659,506	$3,849,122	1.8
C&I Gas Optimization	$737,673	$1,595,715	$-	$-	$330,371	$330,371	$2,333,388	$330,371	$2,003,017	7.1	$737,673	$330,371	$407,302	2.2
Small and Midsize Business	$2,270,705	$4,312,714	$178,675	$749,049	$451,269	$588,001	$6,583,420	$1,319,080	$5,264,340	5.0	$2,449,380	$1,319,080	$1,130,300	1.9
Strategic Energy Management	$-	$-	$-	$18,000	$4,900	$4,900	$-	$22,900	$(22,900)	-	$-	$22,900	$(22,900)	-
Business and Public Sector Total	**$13,559,653**	**$26,372,400**	**$808,378**	**$2,656,124**	**$2,829,142**	**$5,121,285**	**$39,932,053**	**$7,759,439**	**$32,172,614**	**5.1**	**$14,368,031**	**$7,759,439**	**$6,608,592**	**1.9**
Elementary Education Kits (EEE)	$510,811	$1,812,561	$813,285	$92,364	$112,735	$195,989	$2,323,371	$288,352	$2,035,019	8.1	$1,324,096	$288,352	$1,035,744	4.6
Epic Savers Kit (ESK)	$454,186	$1,403,394	$284,369	$65,090	$241,027	$241,027	$1,857,580	$306,117	$1,551,463	6.1	$738,556	$306,117	$432,439	2.4
Home Energy Jumpstart/Assessment	$169,270	$415,450	$119,716	$108,954	$106,033	$122,532	$584,720	$231,486	$353,234	2.5	$288,986	$231,486	$57,500	1.2
Home Energy Rebates - HVAC, Smart Thermostats, Weatherization	$5,675,686	$12,071,257	$1,806,174	$692,197	$932,532	$3,642,864	$17,746,943	$4,335,061	$13,411,882	4.1	$7,481,860	$4,335,061	$3,146,799	1.7
Multi-Family Energy Savings	$401,190	$656,140	$58,951	$200,159	$127,556	$221,322	$1,057,330	$421,481	$635,850	2.5	$460,141	$421,481	$38,660	1.1
Residential Sector Total	**$7,211,143**	**$16,358,802**	**$3,082,496**	**$1,158,762**	**$1,519,884**	**$4,423,735**	**$23,569,945**	**$5,582,497**	**$17,987,448**	**4.2**	**$10,293,639**	**$5,582,497**	**$4,711,142**	**1.8**
Community Joint Kits	$929,212	$2,538,569	$649,385	$72,969	$172,874	$255,042	$3,467,781	$328,011	$3,139,769	10.6	$1,578,597	$328,011	$1,250,586	4.8
Income Qualified Multi-Family	$4,266,824	$6,505,840	$428,289	$931,601	$1,510,657	$2,751,512	$10,772,664	$3,683,113	$7,089,551	2.9	$4,695,113	$3,683,113	$1,012,000	1.3
Income Qualified Single Family	$366,406	$831,013	$67,631	$549,981	$583,305	$576,001	$1,197,419	$1,125,982	$71,437	1.1	$434,038	$1,125,982	$(691,944)	0.4
IQ Elementary Education Kits (IQ EEE)	$213,243	$783,789	$348,037	$65,164	$48,483	$94,134	$997,032	$159,298	$837,733	6.3	$561,280	$159,298	$401,982	3.5
Public Housing Authority (PHES)	$3,590	$8,922	$-	$45,016	$15,568	$19,569	$12,512	$64,585	$(52,073)	0.2	$3,590	$64,585	$(60,995)	0.1
Income Qualified Total	**$5,779,275**	**$10,668,132**	**$1,493,342**	**$1,664,731**	**$2,330,887**	**$3,696,259**	**$16,447,407**	**$5,360,990**	**$11,086,418**	**3.1**	**$7,272,617**	**$5,360,990**	**$1,911,628**	**1.4**
Market Development Initiative				**$513,977**			**$-**	**$513,977**	**$(513,977)**		**$-**	**$513,977**	**$(513,977)**	
EEPS Portfolio Costs				**$3,565,002**			**$-**	**$3,565,002**	**$(3,565,002)**		**$-**	**$3,565,002**	**$(3,565,002)**	
EEPS Portfolio Total	**$26,550,072**	**$53,399,334**	**$5,384,216**	**$9,558,595**	**$6,679,913**	**$13,241,278**	**$79,949,405**	**$22,799,873**	**$57,149,532**	**3.5**	**$31,934,288**	**$22,799,873**	**$9,134,414**	**1.4**
EEPS Portfolio Total, without Income Qualified (IQ)	**$20,770,796**	**$42,731,202**	**$3,890,874**	**$7,893,865**	**$4,349,026**	**$9,545,019**	**$63,501,998**	**$17,438,884**	**$46,063,114**	**3.6**	**$24,661,670**	**$17,438,884**	**$7,222,786**	**1.4**

***Notes**: Totals may not sum due to rounding. Other Portfolio (Admin) Costs are now included in the TRC results, which had previously been omitted from the Annual Summary Impact Reports.*
Source: Evaluation summary of analysis of 2022 through 2025 program and portfolio verified summary reports[7]

[7] https://www.ilsag.info/evaluation-documents/final-evaluation-reports/#people

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Table 9. Summary of Program Level Benefits, Costs and Illinois PACT for 2022-2025

Programs	Benefits		Costs			Program Administrator Cost Test (PACT) w NEIs				Program Administrator Cost Test (PACT) w/o NEIs			
	Avoided Gas Savings	All Other Benefits w NEI	Non-Incentive Costs	Incentive Costs	Incremental Costs	PACT Benefits	PACT Costs	PACT Test Net Benefits	PACT Test	PACT Benefits	PACT Costs	PACT Test Net Benefits	PACT Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b+c)	(h) = (d+e)	(i) = (g-h)	(j) = (g/h)	(k) = (b)	(l) = (d+e)	(m) = (k-l)	(n) = (k/l)
C&I and PS Joint New Construction	$201,818	$-	$21,295	$22,473	$158,871	$201,818	$43,768	$158,050	4.6	$201,818	$43,768	$158,050	4.6
C&I and PS Retro-Commissioning	$47,043	$-	$-	$3,955	$33,792	$47,043	$3,955	$43,088	11.9	$47,043	$3,955	$43,088	11.9
C&I and PS Custom	$1,766,001	$-	$-	$787,556	$1,213,624	$1,766,001	$787,556	$978,445	2.2	$1,766,001	$787,556	$978,445	2.2
C&I and PS Prescriptive	$6,927,578	$561,898	$1,867,780	$1,228,617	$2,791,725	$7,489,476	$3,096,398	$4,393,078	2.4	$6,927,578	$3,096,398	$3,831,180	2.2
C&I Gas Optimization	$548,238	$-	$-	$330,371	$330,371	$548,238	$330,371	$217,867	1.7	$548,238	$330,371	$217,867	1.7
Small and Midsize Business	$1,930,845	$160,003	$749,049	$451,269	$588,001	$2,090,848	$1,200,318	$890,529	1.7	$1,930,845	$1,200,318	$730,527	1.6
Strategic Energy Management	$-	$-	$18,000	$4,900	$4,900	$-	$22,900	$(22,900)	-	$-	$22,900	$(22,900)	-
Business and Public Sector Total	**$11,421,523**	**$721,901**	**$2,656,124**	**$2,829,142**	**$5,121,285**	**$12,143,423**	**$5,485,267**	**$6,658,157**	**2.2**	**$11,421,523**	**$5,485,267**	**$5,936,256**	**2.1**
Elementary Education Kits (EEE)	$386,084	$686,628	$92,364	$112,735	$195,989	$1,072,711	$205,099	$867,613	5.2	$386,084	$205,099	$180,985	1.9
Epic Savers Kit (ESK)	$367,586	$237,702	$65,090	$241,027	$241,027	$605,288	$306,117	$299,171	2.0	$367,586	$306,117	$61,469	1.2
Home Energy Jumpstart/Assessment	$134,830	$99,901	$108,954	$106,033	$122,532	$234,731	$214,987	$19,744	1.1	$134,830	$214,987	$(80,157)	0.6
Home Energy Rebates - HVAC, Smart Thermostats, Weatherization	$4,075,302	$1,367,369	$692,197	$932,532	$3,732,460	$5,442,671	$1,624,729	$3,817,942	3.3	$4,075,302	$1,624,729	$2,450,573	2.5
Multi-Family Energy Savings	$311,347	$48,267	$200,159	$127,556	$221,403	$359,614	$327,715	$31,899	1.1	$311,347	$327,715	$(16,367)	1.0
Residential Sector Total	**$5,275,148**	**$2,439,867**	**$1,158,762**	**$1,519,884**	**$4,513,411**	**$7,715,015**	**$2,678,646**	**$5,036,369**	**2.9**	**$5,275,148**	**$2,678,646**	**$2,596,502**	**2.0**
Community Joint Kits	$680,438	$548,361	$72,969	$172,874	$255,042	$1,228,800	$245,843	$982,956	5.0	$680,438	$245,843	$434,595	2.8
Income Qualified Multi-Family	$2,980,254	$359,985	$931,601	$1,510,657	$2,751,512	$3,340,239	$2,442,257	$897,982	1.4	$2,980,254	$2,442,257	$537,997	1.2
Income Qualified Single Family	$259,594	$56,215	$549,981	$583,305	$577,546	$315,809	$1,133,286	$(817,477)	0.3	$259,594	$1,133,286	$(873,692)	0.2
IQ Elementary Education Kits (IQ EEE)	$161,496	$295,254	$65,164	$48,483	$94,134	$456,749	$113,647	$343,102	4.0	$161,496	$113,647	$47,849	1.4
Public Housing Authority (PHES)	$3,403	$-	$45,016	$15,568	$19,569	$3,403	$60,584	$(57,181)	0.1	$3,403	$60,584	$(57,181)	0.1
Income Qualified Total	**$4,085,185**	**$1,259,815**	**$1,664,731**	**$2,330,887**	**$3,697,804**	**$5,345,001**	**$3,995,617**	**$1,349,383**	**1.3**	**$4,085,185**	**$3,995,617**	**$89,568**	**1.0**
Market Development Initiative			**$513,977**			**$-**	**$513,977**	**$(513,977)**		**$-**	**$513,977**	**$(513,977)**	
EEPS Portfolio Costs			**$3,565,002**			**$-**	**$3,565,002**	**$(3,565,002)**		**$-**	**$3,565,002**	**$(3,565,002)**	
EEPS Portfolio Total	**$20,781,856**	**$4,421,583**	**$9,558,595**	**$6,679,913**	**$13,332,500**	**$25,203,439**	**$16,238,508**	**$8,964,931**	**1.6**	**$20,781,856**	**$16,238,508**	**$4,543,348**	**1.3**
EEPS Portfolio Total, without Income Qualified (IQ)	**$16,696,671**	**$3,161,768**	**$7,893,865**	**$4,349,026**	**$9,634,696**	**$19,858,439**	**$12,242,891**	**$7,615,548**	**1.6**	**$16,696,671**	**$12,242,891**	**$4,453,780**	**1.4**

Notes: Totals may not sum due to rounding. Other Portfolio (Admin) Costs are now included in the PACT results, which had previously been omitted from the Annual Summary Impact Reports.
Source: Evaluation summary of analysis of 2022 through 2025 program and portfolio verified summary reports[8]

[8] https://www.ilsag.info/evaluation-documents/final-evaluation-reports/#people

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Appendix A. Cost Effectiveness Methodology

As part of the evaluation of North Shore Gas energy efficiency programs for PY2022 through PY2025, Guidehouse performed benefit-cost calculations with data provided by North Shore Gas and Guidehouse-evaluated program results, referencing the IL TRM or Guidehouse research. The focus of this review is on the basis and calculations used to conduct the Illinois TRC test. The Illinois TRC test is defined in 220 ILCS 5/8-104(b)[9] as follows:

> *"Cost-effective" means that the measures satisfy the total resource cost test which, for purposes of this Section, means a standard that is met if, for an investment in energy efficiency, the benefit-cost ratio is greater than one. The benefit-cost ratio is the ratio of the net present value of the total benefits of the measures to the net present value of the total costs as calculated over the lifetime of the measures. The total resource cost test compares the sum of avoided natural gas utility costs, representing the benefits that accrue to the system and the participant in the delivery of those efficiency measures, as well as other quantifiable societal benefits, including avoided electric utility costs, to the sum of all incremental costs of end use measures (including both utility and participant contributions), plus costs to administer, deliver, and evaluate each demand-side measure, to quantify the net savings obtained by substituting demand-side measures for supply resources. In calculating avoided costs, reasonable estimates shall be included for financial costs likely to be imposed by future regulation of emissions of greenhouse gases. The low-income programs described in item (4) of subsection (f) of this Section shall not be required to meet the total resource cost test.*

The Illinois TRC test differs from a traditional TRC test in its requirement to include a reasonable estimate of the financial costs associated with future regulations and legislation on the emissions of greenhouse gases (GHG). Additional benefits included in the calculation are the NEIs and water savings. This difference adds an additional benefit to investments in efficiency programs that typically are included in the Societal Cost Test in other jurisdictions.

In contrast, the PACT approaches cost-effectiveness from the perspective of the utility as program administrator and determines the ratio of energy supply costs avoided by the utility to the overhead and cost outlays that the utility incurred to implement energy efficiency programs. Since the PACT is primarily focused on utility outlays, incentives paid by the utility to either participants or third-party implementers are included in the calculation, rather than incremental or participant costs. Additionally, since non-energy benefits accrue to society rather than to utility implementing the energy efficiency programs, those benefits are not included in the PACT formula.

[9] Public Utilities Act, Illinois Compiled Statutes maintained by the Legislative Reference Bureau, http://www.ilga.gov/legislation/ilcs/fulltext.asp?DocName=022000050K8-104.

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Incremental Measure Cost Approach

Incremental cost is the difference between the cost of the efficient measure and the cost of the most relevant baseline measure that would have been installed (if any) in the absence of the efficiency program. The Illinois Energy Efficiency Policy Manual[10] instructs that installation costs (material and labor) and Operations and Maintenance (O&M) costs shall be included if there is a difference between the efficient measure and the baseline measure in O&M costs. In cases where the efficient measure has a significantly shorter or longer life than the relevant baseline measure, the avoided baseline replacement measure costs should be accounted for in the TRC analysis. The incremental cost input in the TRC analysis is not reduced by the amount of incentives.

Data Assumptions in the Cost-Effectiveness Calculations

Guidehouse identified the following data points in Table 10 for conducting the Illinois TRC test. The data are divided into generic and program-specific categories. The program-specific data points are further subdivided into those (1) provided by the utility, (2) are a result of evaluation activities, and (3) from multiple sources.

[10] Illinois Energy Efficiency Policy Manual, Version 3.0, available at: https://www.ilsag.info/policy/

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Table 10. Data Points Needed to Conduct the Illinois TRC Test

Category	Data Point	Source
Generic	• Avoided Natural Gas Costs: Plan 4 • Avoided Electricity Costs • Loss Factor (Unaccounted-for-Gas Factor) • Plan 4 Non-Energy Impacts Additional Quantifiable Benefit • Weighted Average Cost of Capital	PGL and NSG, ComEd
Generic	• Societal Discount Rate • Greenhouse Gas (GHG) Adder	Illinois TRM[11] and Energy Efficiency Stakeholders Advisory Group
Program Specific	• Verified Participants / Measure Count • Verified Gross and Net Energy Savings • Realization Rate • Net-to-Gross Ratio	Final Evaluation Reports[12]
	• Non-Incentive Costs • Utility Incentive Costs	PGL and NSG
	• Incremental Measure Costs • Measure Life • Water Savings in Gallons and Avoided Water Costs • Electric Savings in kWh and Avoided kWh Costs	PGL and NSG, Guidehouse Evaluation, Illinois TRM, Other

Source: Evaluation Research

[11] Illinois Statewide Technical Reference Manual (Illinois TRM). Available at: https://www.ilsag.info/technical-reference-manual/
[12] Evaluation documents are available at: https://www.ilsag.info/evaluation-documents/final-evaluation-reports/

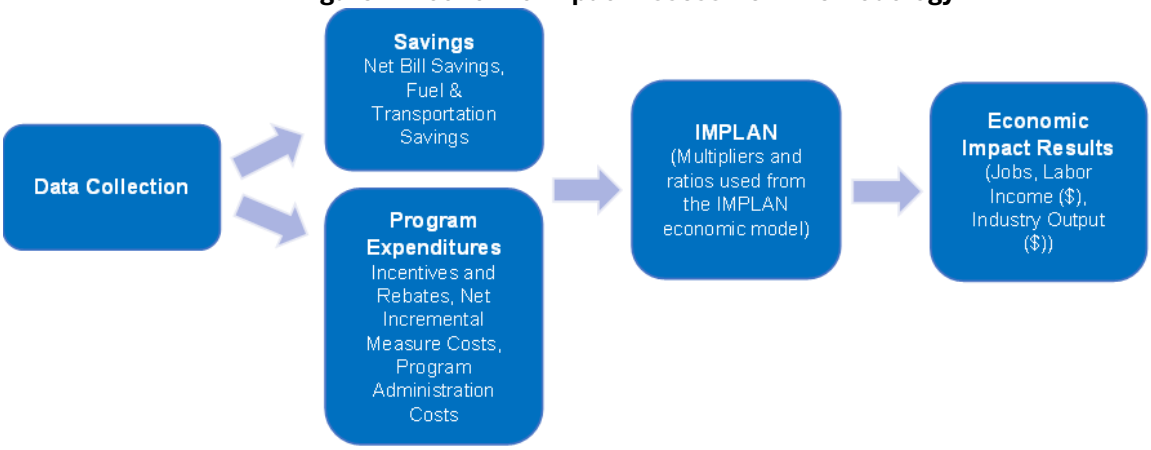
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Appendix B. Economic Impact Analysis Methodology

The economic impact assessment for energy efficiency programs follows a three-step process (depicted in Figure 2):

1) Data collection of the economic activities of the energy efficiency programs
2) Economic modeling of these activities using IMPLAN[13]
3) Analysis of the results – summarizing and assessing the economic measures (e.g. industry output, labor income, and jobs)

Figure 2. Economic Impact Assessment Methodology



Source: Evaluation Research

[13] IMPLAN is an economic analysis software used to estimate the impact of an economic activity on a specific geographic area. The analysis uses IMPLAN 2021 data for Illinois to capture the effect of program spending on the Illinois economy. For more information, see https://implan.com/

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