NAVIGANT

Plan Year 4 through 6
Total Resource Cost (TRC) Test Results and Impact Summary Evaluation Report

Second Triennial Energy Efficiency Plan:
Gas Plan Year 4-6
(6/1/2014-12/31/2017)

Presented to:
Peoples Gas

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Peoples Gas Total Resource Cost Test Results and Impact Summary Evaluation Report

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1. EXECUTIVE SUMMARY

This report provides Navigant's summary reporting of verified energy savings and cost effectiveness results for the Peoples Gas (PGL) Energy Efficiency Plan (EEPS) portfolio of programs for GPY4 through GPY6[1]. The verified annual first year net savings of 28,375,556 therms[2] exceeded its compliance goal[3] of 26,646,481 net therms by 6 percent. Based on the Illinois TRC calculation, the portfolio TRC of 1.67 has met the statutory cost effectiveness test.

1.1 Portfolio Total Resource Cost (TRC) Test Results

This section summarizes findings regarding the cost-effectiveness of the Peoples Gas portfolio of energy efficiency programs during the three year and seven month time period from program year four through program year six. The calculations and results are to inform future planning for the implementation of efficiency programs, as well as to ensure Peoples Gas met its regulatory responsibility to implement a cost effective portfolio of energy efficiency programs during the three-plus year period.

Navigant's evaluation of the cost effectiveness of the Peoples Gas energy efficiency portfolio includes two tests:

- Illinois (IL) TRC Test, which includes benefits from avoided environmental damages
- Utility Cost Test (UCT)

Importantly, the Peoples Gas portfolio is cost-effective under both tests performed by Navigant. The various cost-effectiveness tests and assumptions employed are meant to give a range of perspectives on the cost-effectiveness of the Peoples Gas portfolio. The cost effectiveness methodology and description of data inputs is provided in Section 2.

The TRC and UCT results are separated into two portfolio groups: the Energy Efficiency Plan (EEPS) portfolio of programs, and the portfolio of income eligible and public sector programs formerly administered by the Illinois Department of Commerce and Economic Opportunity (DCEO). During the GPY6 "Bridge Period", June 1, 2017 through December 31, 2017, responsibility for administering the former DCEO energy efficiency programs was transferred to Illinois gas and electric utilities.

Table 1-1 summarizes the three-plus year combined results for the Peoples Gas portfolio at the program, sector, and portfolio levels. The results presented in this table are based on the IL TRC, which is the primary test utilized by Navigant for ascertaining the portfolio's cost effectiveness. The results show that across the entire three-plus program year period, the EEPS portfolio was cost effective with a TRC ratio of 1.67, which breaks down to 1.92 for the Residential sector and 1.69 for the Commercial and Industrial sector. The former DCEO programs were not cost effective as a whole, with a 0.50 TRC.

[1] Gas Program Year 4 (GPY4) began on June 1, 2014 and ended May 31, 2015. Gas Program Year 5 (GPY5) began on June 1, 2015 and ended May 31, 2016. Gas Program Year 6 (GPY6) began on June 1, 2016 and ended December 31, 2017. GPY6 included a seven month "Bridge Period" from June 1, 2017 through December 31, 2017 to align program year and calendar year going forward.

[2] Unless noted, therm values are first year annual savings.

[3] The compliance goal consists of the sum of the net annual therm savings goals for GPY4 through GPY6 plus the bridge period. The EEPS compliance goal for GPY4, GPY5, and GPY6 is 22,308,682 net annual therms, and the goal for the EEPS bridge period is 4,337,799 net annual therm savings, from Exhibit E in the Joint Verified Petition submitted in Docket 17-0212. Navigant combined the three-year EEPS compliance goal with the bridge period EEPS goal for the total of 26,646,481 net annual therms.

Table 1-1. Summary of Peoples Gas GPY4-GPY6 IL TRC Results by Program – Peoples Gas Specific w/o Electric Data from Joint Programs

Total Resource Cost Test (TRC) Results for Peoples Gas, GPY4-GPY6 Programs									
Program	Benefits		Costs			IL Total Resource Cost (TRC) Test			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b+c)	(h) = (d+f)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$3,793,714	$6,936,764	$2,102,251	$3,454,267	$2,269,839	$10,730,478	$4,372,090	$6,358,388	2.45
Home Energy Rebate	$6,617,535	$3,034,252	$3,496,395	$2,315,327	$8,423,094	$9,651,788	$11,919,489	-$2,267,701	0.81
Multi-Family	$26,367,548	$16,925,229	$6,326,088	$8,113,255	$12,489,973	$43,292,777	$18,816,061	$24,476,716	2.30
Home Energy Reports	$3,072,947	$230,471	$1,782,127	$970,199	$970,199	$3,303,418	$2,752,326	$551,092	1.20
Elementary Energy Ed (EEE)	$1,471,122	$5,273,955	$531,923	$85,954	$67,904	$6,745,077	$599,827	$6,145,250	11.25
EEPS Residential (SubTotal)	$41,322,867	$32,400,672	$14,238,785	$14,939,002	$24,221,008	$73,723,539	$38,459,792	$35,263,746	1.92
Prescriptive	$8,177,875	$2,091,584	$1,868,369	$2,398,803	$2,855,519	$10,269,459	$4,723,888	$5,545,571	2.17
Custom	$15,611,202	$6,690,949	$3,547,619	$4,693,184	$8,607,055	$22,302,152	$12,154,674	$10,147,478	1.83
Gas Optimization	$6,348,314	$3,043,538	$1,514,499	$2,637,963	$3,764,190	$9,391,851	$5,278,688	$4,113,163	1.78
Coordinated Retro-Commissioning	$2,201,575	$495,264	$421,090	$830,377	$1,791,744	$2,696,838	$2,212,834	$484,004	1.22
Coordinated New Construction	$1,319,353	$859,667	$352,333	$552,952	$1,469,669	$2,179,020	$1,822,002	$357,018	1.20
Small Business	$5,109,654	$1,978,211	$3,068,482	$1,838,597	$2,617,759	$7,087,865	$5,686,241	$1,401,625	1.25
EEPS Business (SubTotal)	$38,767,973	$15,159,213	$10,772,391	$12,951,875	$21,105,936	$53,927,185	$31,878,327	$22,048,858	1.69
Sum of EEPS Programs	**$80,090,839**	**$47,559,885**	**$25,011,176**	**$27,890,877**	**$45,326,944**	**$127,650,724**	**$70,338,119**	**$57,312,605**	**1.81**
EEPS Portfolio Costs			**$6,225,050**			**$0**	**$6,225,050**	**-$6,225,050**	
Aggregate EEPS Portfolio	**$80,090,839**	**$47,559,885**	**$31,236,225**	**$27,890,877**	**$45,326,944**	**$127,650,724**	**$76,563,169**	**$51,087,555**	**1.67**
Former DCEO Income Eligible Programs	$1,335,831	$1,492,918	$154,054	$3,765,825	$5,452,603	$2,828,749	$5,606,656	-$2,777,907	0.50
Former DCEO Public Sector Programs	$111,629	$186,204	$548,438	$60,345	$105,955	$297,833	$654,393	-$356,559	0.46
Former DCEO Programs (Bridge)	**$1,447,460**	**$1,679,122**	**$702,491**	**$3,826,170**	**$5,558,558**	**$3,126,582**	**$6,261,049**	**-$3,134,467**	**0.50**

Source: Navigant Analysis

1.2 Portfolio Impact Evaluation Summary Results

This section summarizes verified numerical results of Navigant's impact evaluation of the energy efficiency programs offered by Peoples Gas in Gas Plan Years 4 through 6 (GPY4 through GPY6), which ran from June 1, 2014 to December 31, 2017. Verified savings[4] results are used to determine compliance with statutory goals and are provided in this section.

This report does not cover program process evaluation results or recommendations. All recommendations and process evaluation results are provided in reports produced annually. Annual evaluation reports can be found on the Illinois Energy Efficiency Stakeholder Advisory Group website[5].

Verified energy savings are documented in Table 1-2 through Table 1-5. Detailed tables with verified program savings and costs are provided in Section 3.

Table 1-2. Peoples Gas Portfolio Year 4 Results – Verified Net Energy Savings

Program/Path	Verified			
	RR*	Gross (Therms)	NTG†	Net (Therms)‡
Home Energy Jumpstart	1.00	397,295	0.96	381,403
Home Energy Rebate	1.01	584,679	0.82	479,436
Multi-Family	1.00	2,831,843	0.95	2,679,593
Home Energy Reports	1.00	3,280,440	1.00	3,280,440
Elementary Energy Education	1.00	64,719	0.79	51,128
C&I Custom	1.00	1,929,491	0.68	1,312,054
C&I Prescriptive	1.00	905,576	0.58	527,746
Gas Optimization	0.98	478,346	1.02	487,913
Retro-Commissioning	0.97	504,341	1.02	514,428
Small Business	1.00	525,412	0.94	495,591
EEPS Portfolio Total		**11,502,142**		**10,209,732**

* Realization Rate (RR) is the ratio of verified gross savings (based on evaluation research findings) to ex ante gross savings (the unverified savings claimed by Peoples Gas). Impacts shown exclude interactive electric effects that reduce natural gas savings.
† Net-to-Gross (NTG) is the ratio of verified net savings to verified gross savings. The program-level NTG is based on deemed values which are to be found on the Illinois SAG web site: http://ilsag.info/net-to-gross-framework.html.
‡ Verified gross therms times the NTG ratio equals the verified net therms.
Source: Navigant research and analysis

[4] All savings shown exclude interactive electric effects that reduce natural gas savings.
[5] http://www.ilsag.info/evaluation-documents.html

Table 1-3. Peoples Gas Portfolio Year 5 Results – Verified Net Energy Savings

Program/Path	Verified			
	RR	Gross (Therms)	NTG	Net (Therms)
Home Energy Jumpstart	0.95	665,936	0.96	639,298
Home Energy Rebate	0.99	388,646	0.81	314,803
Multi-Family	1.03	2,008,007	0.95	1,909,484
Home Energy Reports	0.98	2,447,961	1.00	2,447,961
Elementary Energy Education	1.16	52,334	1.05	54,950
C&I Custom	1.00	749,105	0.78	584,302
C&I Prescriptive	0.99	1,929,746	0.63	1,219,419
Gas Optimization	0.91	283,806	1.02	289,482
Retro-Commissioning	1.04	116,095	1.02	118,417
Small Business	0.98	470,817	0.93	437,860
EEPS Portfolio Total		**9,112,453**		**8,015,976**

Source: Navigant research and analysis

Table 1-4. Peoples Gas Portfolio Year 6 Results – Verified Net Energy Savings

Program/Path	Verified			
	RR	Gross (Therms)	NTG	Net (Therms)
Home Energy Jumpstart	1.07	586,632	0.96	565,186
Home Energy Rebate	1.00	808,880	0.89	718,572
Multi-Family	1.00	2,564,765	0.90	2,316,087
Home Energy Reports	0.92	352,754	1.00	352,754
Elementary Energy Education	1.49	407,717	1.00	407,717
C&I Custom	0.97	2,207,202	0.69	1,522,970
C&I Prescriptive	1.00	2,262,105	0.79	1,787,064
Gas Optimization	1.00	1,052,062	1.02	1,073,103
Retro-Commissioning	1.05	275,521	1.02	281,032
C&I New Construction	0.95	407,141	0.67	272,785
Small Business	1.12	916,750	0.93	852,578
EEPS Portfolio Total		**11,841,529**		**10,149,848**
Public Sector Prescriptive	1.00	89,121	0.46	40,995
Public Sector STEP	0.98	18,513	0.90	16,662
Public Sector Custom	0.67	5,238	0.74	3,876
Income Eligible IHWAP	0.76	22,754	1.00	22,754
Income Eligible Single Family	0.73	141,700	1.00	141,700
Income Eligible Multi-Family	1.04	123,720	1.00	123,720
Public Housing Authorities	1.02	27,349	1.00	27,349
Former DCEO Portfolio Total		**428,395**		**377,056**

Source: Navigant research and analysis

Table 1-5. Peoples Gas Portfolio Years 4 through 6 Results – Verified Net Energy Savings

Portfolio	Verified	
	Gross (Therms)	Net (Therms)
EEPS GPY4	11,502,142	10,209,732
EEPS GPY5	9,112,453	8,015,976
EEPS GPY6	11,841,529	10,149,848
EEPS Portfolio Total	**32,456,124**	**28,375,556**
EEPS Compliance Goal	**NA**	**26,646,481**
Percent of EEPS Compliance Goal	**NA**	**106%**
Former DCEO Portfolio Total	**428,395**	**377,056**

Source: Navigant research and analysis

2. Cost Effectiveness Methodology

As part of Navigant's evaluation of Peoples Gas energy efficiency programs for gas program years four through six, we performed cost-effectiveness calculations based upon a combination of assumptions made by Peoples Gas, program tracking data, and other available resources. The focus of this review is on the basis and calculations used to conduct the Illinois TRC test, but the inputs and results for the Utility Cost Test (UCT) are also reported.

The Illinois TRC test is defined in 220 ILCS 5/8-104(b)[6] 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 traditional TRC tests 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 non-energy benefits with a multiplier applied to the energy avoided costs, and water savings. This difference adds an additional benefit to investments in efficiency programs that are typically included in the Societal Test in other jurisdictions.

The results of the Utility Cost Test (UCT) are also presented. The UCT approaches cost effectiveness from the perspective of the utility. It determines whether the energy supply costs avoided by the utility exceed the overhead and cost outlays that the utility incurred to implement energy efficiency programs. Since the UCT is primarily focused on utility outlays, incentives paid by the utility to either participants or third-party implementers are included in the calculation in place of incremental or participant costs. Additionally, since non-energy benefits accrue to society rather than to the utility implementing energy efficiency programs, these benefits are not included in the UCT formula.

Incremental Measure Cost Approach

Incremental cost means 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. 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 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 any incentives.

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

Data Assumptions in the Cost Effectiveness Calculations

The data points needed to conduct the Illinois TRC and UCT tests are provided in Table 2-1 below and are divided into generic and program specific categories. The program specific data points are further subdivided into those that are provided by Peoples Gas, those that are a result of Navigant's evaluation activities, and those from multiple sources.

Table 2-1. Data Points Needed to Conduct the Illinois TRC Test

Category	Data Point	Source
Generic	• Avoided Natural Gas Costs • Escalation Rates • Line Losses (Unaccounted-for-Gas Factor) • Weighted Average Cost of Capital • Non-Energy Benefits (NEBs) Adder	Peoples Gas
Generic	• Greenhouse Gas (GHG) Adder	Illinois Energy Efficiency Stakeholders Advisory Group Agreement
Program Specific	• Verified Participants / Measure Count • Verified Gross and Net Energy Savings • Realization Rate • Net-to-Gross Ratio	Navigant Final Evaluation Reports[7]
	• Non-Incentive Costs • Utility Incentive Costs	Peoples Gas
	• Incremental Measure Costs • Measure Life • Water Gallon Savings and Avoided Costs	Peoples Gas / Navigant / Illinois TRM[8] / Other

Source: Research by Navigant

The values for the generic data points used in the cost-effectiveness calculations for all programs and the portfolio are summarized below.

- The discount rate of 5.85 percent for the TRC and UCT was based on a weighted average cost of capital provided by Peoples Gas.
- Natural gas avoided costs are based on values provided by PGL.
  - For the years 2014 through 2017, avoided costs were drawn from the PGL GPY4-6 plan, except that Navigant removed the GHG adder. A Non-Energy Benefit factor of 1.075 is included. A line loss factor of 1.0185 and an escalation rate of 4.28 percent were applied.
  - For the years 2018 and beyond, avoided costs were drawn from PGL GPY7-10 planning values. A GHG adder of $0.13 per therm ($25/metric ton) agreed to by the Illinois SAG is included starting in 2020 for the TRC analysis. A Non-Energy Benefit factor of 1.075 is included. A line loss factor of 1.0358 and an escalation rate of 1.91 percent were applied.

The following points are noted for the program-specific data points used in the cost-benefit calculations.

[7] Evaluation documents are available at: http://www.ilsag.info/evaluation-documents.html

[8] Illinois Statewide Technical Reference Manual (Illinois TRM). Available at: http://www.ilsag.info/technical-reference-manual.html

- Water saving benefits from water saving measures rely upon the Illinois TRM to estimate gallons of water saved per device. Water avoided costs through 2017 for Peoples Gas were estimated using water and sewer rates for the City of Chicago[9]. The escalation rate for water costs is 1.91 percent for PGL, based on the Illinois TRM version 6.0, applied after 2017.
- Energy saving benefits represent natural gas only taken from final evaluation verified results.
- Incentives and non-incentive program costs were provided by Peoples Gas. For some programs, incentive amounts are tracked by program path, while non-incentive costs are tracked and bundled to include multiple paths. This is why some cells are merged in the TRC/UCT tables. We presented results at the path level when possible.
- For incremental measure costs and measure lives, PGL and Navigant relied upon a combination of program tracking data, program invoices (for direct install), the Illinois TRM, PGL planning values, and Navigant estimates. The main area where professional judgement is considered was for the incremental measure costs. We use incremental costs from Illinois TRM for measures where the tracking data measure costs do not clearly provide incremental cost information (i.e., when the tracking data provides installed cost but not incremental costs). In other cases, we use tracking data measure cost as the true indication of project incremental cost. These include cases where the TRM does not provide incremental costs, or cases where tracking data provides more accurate, site-specific incremental costs than those provided in the TRM. The tracking data measure costs are invoice/measure costs supplied by program applicants and provided to the implementation contractor.
- For joint programs, the measure costs are the PGL share of full incremental costs. Incentives and non-incentive costs are the PGL share of costs.
- For all joint and coordinated programs with ComEd, including programs in the EEPS portfolio and former DCEO income qualified and public sector programs, the interactive energy effects (resulting in negative gas savings) and costs due to ComEd's electric saving measures were not included in our analysis. The impact of electric interactive savings effects and costs are analyzed separately and presented in a joint electric-gas TRC memo (provided in Section 4 of this report). Coordinated or joint programs in the EEPS portfolio include:

Table 2-2. Summary of Coordinated or Jointly Implemented EEPS Programs

Program	ComEd	Nicor Gas	PGL
Home Energy Assessment / Home Energy Savings / Home Energy Jumpstart	X	X	X
Multi-Family Retrofit	X	X	X
Elementary Energy Education	X	X	X
Residential New Construction	X	X	
C&I Retro-Commissioning	X	X	X
Business New Construction	X	X	X
Strategic Energy Management	X	X	

Source: Navigant analysis

[9] Available at https://www.cityofchicago.org/city/en/depts/fin/supp_info/utility-billing/water-and-sewer-rates.html.

3. PROGRAM SPECIFIC DATA

3.1 Program Specific Cost Effectiveness Results Summary

A summary of the components of the cost effectiveness calculations for each program are shown in Table 3-1 for the Illinois TRC calculations and Table 3-2 for the Utility Cost Test calculations. The tables include the value of each benefit and cost component for each program totaled over three years, as well as portfolio level totals for each component. Results for the EEPS portfolio and former DCEO programs are shown separately.

Table 3-1. Summary of Program Level Benefits, Costs and IL TRC Test for GPY4-6

Total Resource Cost Test (TRC) Results for Peoples Gas, GPY4-GPY6 Programs									
Program	Benefits		Costs			IL Total Resource Cost (TRC) Test			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b+c)	(h) = (d+f)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$3,793,714	$6,936,764	$2,102,251	$3,454,267	$2,269,839	$10,730,478	$4,372,090	$6,358,388	2.45
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Multi-Family	$26,367,548	$16,925,229	$6,326,088	$8,113,255	$12,489,973	$43,292,777	$18,816,061	$24,476,716	2.30
Home Energy Reports	$3,072,947	$230,471	$1,782,127	$970,199	$970,199	$3,303,418	$2,752,326	$551,092	1.20
Elementary Energy Ed (EEE)	$1,471,122	$5,273,955	$531,923	$85,954	$67,904	$6,745,077	$599,827	$6,145,250	11.25
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Coordinated Retro-Commissioning	$2,201,575	$495,264	$421,090	$830,377	$1,791,744	$2,696,838	$2,212,834	$484,004	1.22
Coordinated New Construction	$1,319,353	$859,667	$352,333	$552,952	$1,469,669	$2,179,020	$1,822,002	$357,018	1.20
Small Business	$5,109,654	$1,978,211	$3,068,482	$1,838,597	$2,617,759	$7,087,865	$5,686,241	$1,401,625	1.25
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Sum of EEPS Programs	**$80,090,839**	**$47,559,885**	**$25,011,176**	**$27,890,877**	**$45,326,944**	**$127,650,724**	**$70,338,119**	**$57,312,605**	**1.81**
EEPS Portfolio Costs			**$6,225,050**			**$0**	**$6,225,050**	**-$6,225,050**	
Aggregate EEPS Portfolio	**$80,090,839**	**$47,559,885**	**$31,236,225**	**$27,890,877**	**$45,326,944**	**$127,650,724**	**$76,563,169**	**$51,087,555**	**1.67**
Former DCEO Income Eligible Programs	$1,335,831	$1,492,918	$154,054	$3,765,825	$5,452,603	$2,828,749	$5,606,656	-$2,777,907	0.50
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Former DCEO Programs (Bridge)	**$1,447,460**	**$1,679,122**	**$702,491**	**$3,826,170**	**$5,558,558**	**$3,126,582**	**$6,261,049**	**-$3,134,467**	**0.50**

Source: Navigant Analysis

Table 3-2. Summary of Program Level Benefits, Costs and IL UCT for GPY4-6

Utility Cost Test (UCT) Results for Peoples Gas, GPY4 - GPY6 Programs									
Program	Benefits		Costs			Utility Cost Test (UCT)			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	UCT Benefits	UCT Costs	UCT Test Net Benefits	UCT Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b)	(h) = (d+e)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$3,793,714		$2,102,251	$3,454,267	$2,269,839	$3,793,714	$5,556,519	-$1,762,804	0.68
Home Energy Rebate	$6,617,535		$3,496,395	$2,315,327	$8,423,094	$6,617,535	$5,811,721	$805,814	1.14
Multi-Family	$26,367,548		$6,326,088	$8,113,255	$12,489,973	$26,367,548	$14,439,342	$11,928,205	1.83
Home Energy Reports	$3,072,947		$1,782,127	$970,199	$970,199	$3,072,947	$2,752,326	$320,621	1.12
Elementary Energy Ed (EEE)	$1,471,122		$531,923	$85,954	$67,904	$1,471,122	$617,877	$853,245	2.38
EEPS Residential (SubTotal)	$41,322,867		$14,238,785	$14,939,002	$24,221,008	$41,322,867	$29,177,786	$12,145,080	1.42
Prescriptive	$8,177,875		$1,868,369	$2,398,803	$2,855,519	$8,177,875	$4,267,172	$3,910,703	1.92
Custom	$15,611,202		$3,547,619	$4,693,184	$8,607,055	$15,611,202	$8,240,802	$7,370,400	1.89
Gas Optimization	$6,348,314		$1,514,499	$2,637,963	$3,764,190	$6,348,314	$4,152,462	$2,195,852	1.53
Coordinated Retro-Commissioning	$2,201,575		$421,090	$830,377	$1,791,744	$2,201,575	$1,251,466	$950,108	1.76
Coordinated New Construction	$1,319,353		$352,333	$552,952	$1,469,669	$1,319,353	$905,285	$414,068	1.46
Small Business	$5,109,654		$3,068,482	$1,838,597	$2,617,759	$5,109,654	$4,907,079	$202,575	1.04
EEPS Business (SubTotal)	$38,767,973		$10,772,391	$12,951,875	$21,105,936	$38,767,973	$23,724,266	$15,043,707	1.63
Sum of EEPS Programs	**$80,090,839**		**$25,011,176**	**$27,890,877**	**$45,326,944**	**$80,090,839**	**$52,902,052**	**$27,188,787**	**1.51**
EEPS Portfolio Costs	**$0**		**$6,225,050**		**$0**	**$0**	**$6,225,050**	**-$6,225,050**	
Aggregate EEPS Portfolio	**$80,090,839**	**$0**	**$31,236,226**	**$27,890,877**	**$45,326,944**	**$80,090,839**	**$59,127,102**	**$20,963,737**	**1.35**
Former DCEO Income Eligible Programs	$1,335,831		$154,054	$3,765,825	$4,891,889	$1,335,831	$3,919,879	-$2,584,048	0.34
Former DCEO Public Sector Programs	$111,629		$548,438	$60,345	$105,955	$111,629	$608,782	-$497,153	0.18
Former DCEO Programs (Bridge)	**$1,447,460**	**$0**	**$702,491**	**$3,826,170**	**$4,997,844**	**$1,447,460**	**$4,528,661**	**-$3,081,201**	**0.32**

Source: Navigant Analysis

A summary of the components of the Illinois TRC benefits and costs for each program are shown in Table 3-3 through Table 3-5 for each program year. The tables include the component values for each program, as well as portfolio level totals for each component. Results for the EEPS portfolio and former DCEO programs are shown separately.

Table 3-3. Summary of Illinois TRC Benefits and Costs for GPY4

Total Resource Cost Test (TRC) Results for Peoples Gas, GPY4 Programs									
Program	**Benefits**		**Costs**			**IL Total Resource Cost (TRC) Test**			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b+c)	(h) = (d+f)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$1,092,441	$2,840,082	$412,782	$813,204	$780,675	$3,932,523	$5,052,926	$1,794,110	1.36
Home Energy Rebate	$2,364,811	$549,701	$993,381	$859,951	$2,866,087	$2,914,512			
Multi-Family	$12,287,297	$7,281,749	$1,754,422	$2,979,844	$3,523,243	$19,569,046	$5,277,665	$14,291,381	3.71
Home Energy Reports	$1,649,317	$123,699	$33,743	$970,199	$970,199	$1,773,015	$1,075,419	$1,433,036	2.33
Elementary Energy Ed (EEE)	$166,181	$569,258	$3,573	$85,954	$67,904	$735,439			
EEPS Residential (SubTotal)	$17,560,047	$11,364,488	$3,197,901	$5,709,152	$8,208,108	$28,924,535	$11,406,009	$17,518,526	2.54
Prescriptive	$1,480,427	$177,978	$235,288	$319,346	$687,634	$1,658,405	$7,636,933	$4,455,165	1.58
Custom	$6,537,934	$1,427,834	$1,128,175	$1,535,878	$3,227,653	$7,965,767			
Gas Optimization	$1,120,189	$81,131	$172,075	$325,631	$975,826	$1,201,321			
Coordinated Retro-Commissioning	$1,181,065	$85,540	$181,426	$405,303	$1,028,856	$1,266,605			
Coordinated New Construction	$0	$0	$0	$0	$0	$0			
Small Business	$1,720,740	$317,848	$730,721	$494,291	$826,369	$2,038,588	$1,557,090	$481,498	1.31
EEPS Business (SubTotal)	$12,040,354	$2,090,332	$2,447,685	$3,080,449	$6,746,338	$14,130,686	$9,194,023	$4,936,662	1.54
Sum of EEPS Programs	**$29,600,401**	**$13,454,820**	**$5,645,586**	**$8,789,601**	**$14,954,447**	**$43,055,221**	**$20,600,033**	**$22,455,188**	**2.09**
EEPS Portfolio Costs			**$1,008,592**				**$1,008,592**	**-$1,008,592**	
Aggregate EEPS Portfolio	**$29,600,401**	**$13,454,820**	**$6,654,178**	**$8,789,601**	**$14,954,447**	**$43,055,221**	**$21,608,625**	**$21,446,596**	**1.99**

Source: Navigant Analysis

Table 3-4. Summary of Illinois TRC Benefits and Costs for GPY5

Total Resource Cost Test (TRC) Results for Peoples Gas, GPY5 Programs									
Program	Benefits		Costs			IL Total Resource Cost (TRC) Test			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b+c)	(h) = (d+f)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$1,579,752	$1,881,370	$720,529	$1,075,076	$775,813	$3,461,122	$4,125,456	$1,595,446	1.39
Home Energy Rebate	$1,460,235	$799,545	$780,170	$451,279	$1,848,944	$2,259,781			
Multi-Family	$6,902,367	$3,786,562	$1,805,706	$1,863,514	$2,635,085	$10,688,929	$4,440,791	$6,248,138	2.41
Home Energy Reports	$1,230,769	$92,308	$835,970	$0	$0	$1,323,076	$956,977	$1,321,759	2.38
Elementary Energy Ed (EEE)	$166,201	$789,458	$121,007	$0	$0	$955,659			
EEPS Residential (SubTotal)	$11,339,324	$7,349,243	$4,263,382	$3,389,869	$5,259,842	$18,688,567	$9,523,224	$9,165,343	1.96
Prescriptive	$3,199,312	$626,635	$868,620	$879,710	$1,226,175	$3,825,947	$5,463,093	$3,429,281	1.63
Custom	$2,757,359	$1,345,428	$820,958	$648,639	$1,459,520	$4,102,786			
Gas Optimization	$617,173	$66,714	$161,055	$458,289	$633,506	$683,887			
Coordinated Retro-Commissioning	$252,464	$27,290	$65,882	$152,341	$227,376	$279,754			
Coordinated New Construction	$0	$0	$0	$0	$0	$0			
Small Business	$1,377,712	$569,162	$785,832	$435,440	$516,583	$1,946,874	$1,302,415	$644,459	1.49
EEPS Business (SubTotal)	$8,204,019	$2,635,228	$2,702,348	$2,574,419	$4,063,160	$10,839,248	$6,765,508	$4,073,740	1.60
Sum of EEPS Programs	**$19,543,344**	**$9,984,471**	**$6,965,730**	**$5,964,288**	**$9,323,003**	**$29,527,815**	**$16,288,733**	**$13,239,082**	**1.81**
EEPS Portfolio Costs			**$1,455,713**				**$1,455,713**	**-$1,455,713**	
Aggregate EEPS Portfolio	**$19,543,344**	**$9,984,471**	**$8,421,443**	**$5,964,288**	**$9,323,003**	**$29,527,815**	**$17,744,446**	**$11,783,369**	**1.66**

Source: Navigant Analysis

Table 3-5. Summary of Illinois TRC Benefits and Costs for GPY6

Total Resource Cost Test (TRC) Results for Peoples Gas, GPY6 Programs									
Program	Benefits		Costs			IL Total Resource Cost (TRC) Test			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b+c)	(h) = (d+f)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$1,121,521	$2,215,312	$968,940	$1,565,987	$713,350	$3,336,833	$1,682,290	$1,654,543	1.98
Home Energy Rebate	$2,792,489	$1,685,006	$1,722,844	$1,004,097	$3,708,063	$4,477,495	$5,430,907	-$953,411	0.82
Multi-Family	$7,177,883	$5,856,919	$2,765,960	$3,269,897	$6,331,645	$13,034,802	$9,097,605	$3,937,198	1.43
Home Energy Reports	$192,862	$14,465	$912,415	$0	$0	$207,326	$912,415	-$705,088	0.23
Elementary Energy Ed (EEE)	$1,138,740	$3,915,239	$407,343	$0	$0	$5,053,979	$407,343	$4,646,636	12.41
EEPS Residential (SubTotal)	$12,423,495	$13,686,941	$6,777,502	$5,839,981	$10,753,057	$26,110,436	$17,530,559	$8,579,878	1.49
Prescriptive	$3,498,136	$1,286,971	$764,461	$1,199,747	$941,710	$4,785,107	$1,706,171	$3,078,936	2.80
Custom	$6,315,910	$3,917,688	$1,598,485	$2,508,667	$3,919,881	$10,233,598	$5,518,367	$4,715,231	1.85
Gas Optimization	$4,610,951	$2,895,692	$1,181,369	$1,854,043	$2,154,858	$7,506,644	$3,336,227	$4,170,417	2.25
Coordinated Retro-Commissioning	$768,047	$382,433	$173,781	$272,733	$535,512	$1,150,480	$709,294	$441,186	1.62
Coordinated New Construction	$1,319,353	$859,667	$352,333	$552,952	$1,469,669	$2,179,020	$1,822,002	$357,018	1.20
Small Business	$2,011,203	$1,091,201	$1,551,929	$908,866	$1,274,807	$3,102,404	$2,826,736	$275,668	1.10
EEPS Business (SubTotal)	$18,523,599	$10,433,653	$5,622,358	$7,297,007	$10,296,438	$28,957,252	$15,918,796	$13,038,456	1.82
Sum of EEPS Programs	**$30,947,094**	**$24,120,594**	**$12,399,860**	**$13,136,988**	**$21,049,495**	**$55,067,688**	**$33,449,354**	**$21,618,334**	**1.65**
EEPS Portfolio Costs			**$3,760,745**			**$0**	**$3,760,745**	**-$3,760,745**	
Aggregate EEPS Portfolio	**$30,947,094**	**$24,120,594**	**$16,160,605**	**$13,136,988**	**$21,049,495**	**$55,067,688**	**$37,210,099**	**$17,857,589**	**1.48**
Former DCEO Income Eligible Programs	$1,335,831	$1,492,918	$154,054	$3,765,825	$5,452,603	$2,828,749	$5,606,656	-$2,777,907	0.50
Former DCEO Public Sector Programs	$111,629	$186,204	$548,438	$60,345	$105,955	$297,833	$654,393	-$356,559	0.46
Former DCEO Programs (Bridge)	**$1,447,460**	**$1,679,122**	**$702,491**	**$3,826,170**	**$5,558,558**	**$3,126,582**	**$6,261,049**	**-$3,134,467**	**0.50**

Source: Navigant Analysis

A summary of the components of the UCT benefits and costs for each program are shown in Table 3-6 through Table 3-8 for each program year. The tables include the component values for each program, as well as portfolio level totals for each component. Results for the EEPS portfolio and former DCEO programs are shown separately.

Table 3-6. Summary of UCT Benefits and Costs for GPY4

Utility Cost Test (UCT) Results for Peoples Gas, GPY4 Programs									
Program	Benefits		Costs			Utility Cost Test (UCT)			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	UCT Benefits	UCT Costs	UCT Test Net Benefits	UCT Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b)	(h) = (d+e)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$1,092,441		$412,782	$813,204	$780,675	$1,092,441	$3,079,318	$377,934	1.12
Home Energy Rebate	$2,364,811		$993,381	$859,951	$2,866,087	$2,364,811			
Multi-Family	$12,287,297		$1,754,422	$2,979,844	$3,523,243	$12,287,297	$4,734,266	$7,553,031	2.60
Home Energy Reports	$1,649,317		$33,743	$970,199	$970,199	$1,649,317	$1,093,469	$722,029	1.66
Elementary Energy Ed (EEE)	$166,181		$3,573	$85,954	$67,904	$166,181			
EEPS Residential (SubTotal)	$17,560,047		$3,197,901	$5,709,152	$8,208,108	$17,560,047	$8,907,053	$8,652,994	1.97
Prescriptive	$1,480,427		$235,288	$319,346	$687,634	$1,480,427	$4,303,122	$6,016,493	2.40
Custom	$6,537,934		$1,128,175	$1,535,878	$3,227,653	$6,537,934			
Gas Optimization	$1,120,189		$172,075	$325,631	$975,826	$1,120,189			
Coordinated Retro-Commissioning	$1,181,065		$181,426	$405,303	$1,028,856	$1,181,065			
Coordinated New Construction	$0		$0	$0	$0	$0			
Small Business	$1,720,740		$730,721	$494,291	$826,369	$1,720,740	$1,225,012	$495,728	1.40
EEPS Business (SubTotal)	$12,040,354		$2,447,685	$3,080,449	$6,746,338	$12,040,354	$5,528,134	$6,512,220	2.18
Sum of EEPS Programs	**$29,600,401**		**$5,645,586**	**$8,789,601**	**$14,954,447**	**$29,600,401**	**$14,435,187**	**$15,165,214**	**2.05**
EEPS Portfolio Costs			**$1,008,592**			**$0**	**$1,008,592**	**-$1,008,592**	
Aggregate EEPS Portfolio	**$29,600,401**	**$0**	**$6,654,178**	**$8,789,601**	**$14,954,447**	**$29,600,401**	**$15,443,779**	**$14,156,622**	**1.92**

Source: Navigant Analysis

Table 3-7. Summary of UCT Benefits and Costs for GPY5

Utility Cost Test (UCT) Results for Peoples Gas, GPY5 Programs									
Program	Benefits		Costs			Utility Cost Test (UCT)			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	UCT Benefits	UCT Costs	UCT Test Net Benefits	UCT Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b)	(h) = (d+e)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$1,579,752		$720,529	$1,075,076	$775,813	$1,579,752	$3,027,054	$12,933	1.00
Home Energy Rebate	$1,460,235		$780,170	$451,279	$1,848,944	$1,460,235			
Multi-Family	$6,902,367		$1,805,706	$1,863,514	$2,635,085	$6,902,367	$3,669,220	$3,233,147	1.88
Home Energy Reports	$1,230,769		$835,970	$0	$0	$1,230,769	$956,977	$439,993	1.46
Elementary Energy Ed (EEE)	$166,201		$121,007	$0	$0	$166,201			
EEPS Residential (SubTotal)	$11,339,324		$4,263,382	$3,389,869	$5,259,842	$11,339,324	$7,653,251	$3,686,073	1.48
Prescriptive	$3,199,312		$868,620	$879,710	$1,226,175	$3,199,312	$4,055,495	$2,770,812	1.68
Custom	$2,757,359		$820,958	$648,639	$1,459,520	$2,757,359			
Gas Optimization	$617,173		$161,055	$458,289	$633,506	$617,173			
Coordinated Retro-Commissioning	$252,464		$65,882	$152,341	$227,376	$252,464			
Coordinated New Construction	$0		$0	$0	$0	$0			
Small Business	$1,377,712		$785,832	$435,440	$516,583	$1,377,712	$1,221,272	$156,440	1.13
EEPS Business (SubTotal)	$8,204,019		$2,702,348	$2,574,419	$4,063,160	$8,204,019	$5,276,767	$2,927,252	1.55
Sum of EEPS Programs	**$19,543,344**		**$6,965,730**	**$5,964,288**	**$9,323,003**	**$19,543,344**	**$12,930,018**	**$6,613,326**	**1.51**
EEPS Portfolio Costs			**$1,455,713**			**$0**	**$1,455,713**	**-$1,455,713**	
Aggregate EEPS Portfolio	**$19,543,344**	**$0**	**$8,421,443**	**$5,964,288**	**$9,323,003**	**$19,543,344**	**$14,385,731**	**$5,157,613**	**1.36**

Source: Navigant Analysis

Table 3-8. Summary of UCT Benefits and Costs for GPY6

Utility Cost Test (UCT) Results for Peoples Gas, GPY6 Programs									
Program	Benefits		Costs			Utility Cost Test (UCT)			
	Avoided Gas Savings	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	UCT Benefits	UCT Costs	UCT Test Net Benefits	UCT Test
(a)	(b)	(c)	(d)	(e)	(f)	(g) = (b)	(h) = (d+e)	(i) = (g-h)	(k) = (g/h)
Home Energy Jumpstart	$1,121,521		$968,940	$1,565,987	$713,350	$1,121,521	$2,534,927	-$1,413,406	0.44
Home Energy Rebate	$2,792,489		$1,722,844	$1,004,097	$3,708,063	$2,792,489	$2,726,941	$65,548	1.02
Multi-Family	$7,177,883		$2,765,960	$3,269,897	$6,331,645	$7,177,883	$6,035,856	$1,142,027	1.19
Home Energy Reports	$192,862		$912,415	$0	$0	$192,862	$912,415	-$719,553	0.21
Elementary Energy Ed (EEE)	$1,138,740		$407,343	$0	$0	$1,138,740	$407,343	$731,397	2.80
EEPS Residential (SubTotal)	$12,423,495		$6,777,502	$5,839,981	$10,753,057	$12,423,495	$12,617,483	-$193,988	0.98
Prescriptive	$3,498,136		$764,461	$1,199,747	$941,710	$3,498,136			
Custom	$6,315,910		$1,598,485	$2,508,667	$3,919,881	$6,315,910			
Gas Optimization	$4,610,951		$1,181,369	$1,854,043	$2,154,858	$4,610,951	$10,458,570	$6,053,826	1.58
Coordinated Retro-Commissioning	$768,047		$173,781	$272,733	$535,512	$768,047			
Coordinated New Construction	$1,319,353		$352,333	$552,952	$1,469,669	$1,319,353			
Small Business	$2,011,203		$1,551,929	$908,866	$1,274,807	$2,011,203	$2,460,795	-$449,592	0.82
EEPS Business (SubTotal)	$18,523,599		$5,622,358	$7,297,007	$10,296,438	$18,523,599	$12,919,365	$5,604,234	1.43
Sum of EEPS Programs	**$30,947,094**		**$12,399,860**	**$13,136,988**	**$21,049,495**	**$30,947,094**	**$25,536,848**	**$5,410,246**	**1.21**
EEPS Portfolio Costs			**$3,760,745**				**$3,760,745**	**-$3,760,745**	
Aggregate EEPS Portfolio	**$30,947,094**		**$16,160,605**	**$13,136,988**	**$21,049,495**	**$30,947,094**	**$29,297,593**	**$1,649,501**	**1.06**
Former DCEO Income Eligible Programs	$1,335,831		$154,054	$3,765,825	$4,891,889	$1,335,831	$3,919,879	-$2,584,048	0.34
Former DCEO Public Sector Programs	$111,629		$548,438	$60,345	$105,955	$111,629	$608,782	-$497,153	0.18
Former DCEO Programs	**$1,447,460**		**$702,491**	**$3,826,170**	**$4,997,844**	**$1,447,460**	**$4,528,661**	**-$3,081,201**	**0.32**

Source: Navigant Analysis

3.2 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 3-9 through Table 3-13 for each program year. The tables include the component values for each program, as well as portfolio level totals for each component. Results for the EEPS portfolio and former DCEO programs are shown separately.

Table 3-9. Summary of Verified Savings and Program Costs for GPY4 EEPS

Peoples Gas GPY4 EEPS Ex Post Summary												
	Realization Rate	Verified Gross		Deemed / Used	Verified Net				Actual Costs	Participation		Weighted Average Measure Life
	Energy Savings (Verified Gross / Ex Ante Gross)	First Year Annual Energy Savings	Lifetime Savings	Net-to-Gross Ratio	First Year Annual Savings	Lifetime Savings	First Year Cost per First Year Annual Savings	First Year Cost per Lifetime Savings	Utility Program Costs	# Units	Units Definition	Years
	%	Therms	Therms	%	Therms	Therms	$/Therms	$/Therms	$			
EEPS Residential Programs												
Home Energy Jumpstart	100%	397,295	2,849,385	96%	381,403	2,735,408	$3.577	$0.264	$3,079,318	7,093	Participants	7.2
Home Energy Rebate	101%	584,679	10,898,863	82%	479,436	8,937,053				2,683	Projects / Units	18.6
MF Jumpstart DI	100%	452,306	4,213,264	90%	407,075	3,791,934	$1.767	$0.130	$4,734,266	1,465	Participants	9.3
MF Prescriptive Incentives	97%	291,225	4,063,540	84%	244,629	3,413,375				101	Participants	14.0
MF Partner Trade Ally	99%	1,960,765	28,089,508	99%	1,941,157	27,808,614				523	Participants	14.3
MF Custom	139%	127,547	1,913,205	68%	86,732	1,300,980				11	Projects	15.0
MF New Construction		-	-		-	-				-	Projects	
MF Gas Optimization		-	-		-	-				-	Projects	
Home Energy Reports	110%	3,280,440	3,280,440	100%	3,280,440	3,280,440	$0.328	$0.295	$1,093,469	151,200	Participants	1.0
Elementary Energy Education	100%	64,719	546,474	79%	51,128	431,714				4,741	Kits Distributed	8.4
Total EEPS Residential		7,158,975	55,854,679	96%	6,872,000	51,699,518	$1.30	$0.17	$8,907,052	167,817		7.8
EEPS Business Programs												
C&I Jumpstart DI	100%	10,921	99,978	81%	8,846	80,978	$1.514	$0.150	$4,303,122	7	Participants	9.2
C&I Prescriptive Rebate	100%	894,654	6,873,068	58%	518,900	3,986,383				40	Participants	7.7
C&I NC Prescriptive		-	-		-	-				-	Participants	
C&I Custom Rebate	100%	1,929,491	28,942,372	68%	1,312,054	19,680,810				29	Projects	15.0
C&I Custom New Construction		-	-		-	-				-	Projects	
C&I Coordinated New Construction		-	-		-	-				-	Projects	
C&I Gas Optimization	98%	478,346	2,391,730	102%	487,913	2,439,565				5	Projects	5.0
C&I Retro-Commissioning	97%	504,341	2,521,705	102%	514,428	2,572,140				9	Participants	5.0
Small Business DI	126%	18,922	147,889	99%	18,733	146,410	$2.472	$0.265	$1,225,012	182	Participants	7.8
Small Business Incentives	100%	427,243	3,706,633	99%	422,971	3,669,566				150	Participants	8.7
Small Business Custom	148%	79,247	1,188,705	68%	53,887	808,305				12	Projects	15.0
Small Business New Construction		-	-		-	-				-	Projects	
Total EEPS Business		4,343,167	45,872,079	77%	3,337,732	33,384,157	$1.66	$0.17	$5,528,134	434		10.6
Other EEPS Portfolio Costs									$1,008,592			
EEPS Portfolio Total		11,502,142	101,726,758	89%	10,209,732	85,083,676	$1.51	$0.18	$15,443,779	168,251		8.8

Source: Navigant Analysis

Table 3-10. Summary of Verified Savings and Program Costs for GPY5 EEPS

Peoples Gas GPY5 EEPS Ex Post Summary												
	Realization Rate	Verified Gross		Deemed / Used	Verified Net				Actual Costs	Participation		Weighted Average Measure Life
	Energy Savings (Verified Gross / Ex Ante Gross)	First Year Annual Energy Savings	Lifetime Savings	Net-to-Gross Ratio	First Year Annual Savings	Lifetime Savings	First Year Cost per First Year Annual Savings	First Year Cost per Lifetime Savings	Utility Program Costs	# Units	Units Definition	Years
	%	Therms	Therms	%	Therms	Therms	$/Therms	$/Therms	$			
EEPS Residential Programs												
Home Energy Jumpstart	95%	665,936	4,261,990	96%	639,298	4,091,507	$3.173	$0.313	$3,027,054	10,011	Participants	6.4
Home Energy Rebate	99%	388,646	6,882,921	81%	314,803	5,575,161				3,312	Projects / Units	17.7
MF Jumpstart DI	97%	271,393	2,286,784	92%	249,682	2,103,845	$1.922	$0.184	$3,669,220	947	Participants	8.4
MF Prescriptive Incentives	100%	370,128	3,944,592	87%	322,012	3,431,801				141	Participants	10.7
MF Partner Trade Ally	105%	1,270,910	13,544,560	99%	1,258,200	13,409,105				161	Participants	10.7
MF Custom	102%	74,572	1,118,580	78%	58,166	872,490				8	Projects	15.0
MF New Construction		-	-		-	-				-	Projects	
MF Gas Optimization	100%	21,004	105,020	102%	21,424	107,120				2	Projects	5.0
Home Energy Reports	98%	2,447,961	2,447,961	100%	2,447,961	2,447,961	$0.382	$0.329	$956,976	151,200	Participants	1.0
Elementary Energy Education	116%	52,334	434,851	105%	54,950	456,588				4,250	Kits Distributed	8.3
Total EEPS Residential		5,562,884	35,027,259	96%	5,366,496	32,495,579	$1.43	$0.24	$7,653,251	170,032		6.3
EEPS Business Programs												
C&I Jumpstart DI	100%	571	5,161	82%	468	4,230	$1.834	$0.212	$4,055,495	1	Participants	9.0
C&I Prescriptive Rebate	99%	1,916,863	12,853,940	63%	1,207,624	8,097,984				56	Participants	6.7
C&I NC Prescriptive	100%	12,312	246,240	92%	11,327	226,540				1	Participants	20.0
C&I Custom Rebate	100%	749,105	11,236,575	78%	584,302	8,764,530				31	Projects	15.0
C&I Custom New Construction		-	-		-	-				-	Projects	
C&I Coordinated New Construction		-	-		-	-				-	Projects	
C&I Gas Optimization	91%	283,806	1,419,030	102%	289,482	1,447,410				7	Projects	5.0
C&I Retro-Commissioning	104%	116,095	580,475	102%	118,417	592,085				9	Projects	5.0
Small Business DI	100%	8,996	81,607	93%	8,366	75,892	$2.789	$0.315	$1,221,272	63	Participants	9.1
Small Business Incentives	100%	416,104	3,400,369	93%	386,977	3,162,345				126	Participants	8.2
Small Business Custom	81%	45,717	685,755	93%	42,517	637,755				10	Projects	15.0
Small Business New Construction		-	-		-	-				-	Projects	
Total EEPS Business		3,549,569	30,509,152	75%	2,649,480	23,008,771	$1.99	$0.23	$5,276,768	304		8.6
Other EEPS Portfolio Costs									$1,455,713			
EEPS Portfolio Total		9,112,453	65,536,410	88%	8,015,976	55,504,350	$1.79	$0.26	$14,385,731	170,336		7.2

Source: Navigant Analysis

Table 3-11. Summary of Verified Savings and Program Costs for GPY6 EEPS

Peoples Gas GPY6 EEPS Ex Post Summary												
	Realization Rate	Verified Gross		Deemed / Used	Verified Net				Actual Costs	Participation		Weighted Average Measure Life
	Energy Savings (Verified Gross / Ex Ante Gross)	First Year Annual Energy Savings	Lifetime Savings	Net-to-Gross Ratio	First Year Annual Savings	Lifetime Savings	First Year Cost per First Year Annual Savings	First Year Cost per Lifetime Savings	Utility Program Costs	# Units	Units Definition	Years
	%	Therms	Therms	%	Therms	Therms	$/Therms	$/Therms	$			
EEPS Residential Programs												
Home Energy Jumpstart	107%	586,632	3,637,118	96%	565,186	3,504,153	$4.485	$0.723	$2,534,927	10,286	Participants	6.2
Home Energy Rebate	100%	808,880	12,489,107	89%	718,574	11,094,783	$3.795	$0.246	$2,726,941	6,875	Projects / Units	15.4
MF Jumpstart DI	100%	253,307	2,454,545	92%	233,042	2,258,177				1,259	Participants	9.7
MF Prescriptive Incentives	100%	644,951	7,075,112	92%	593,355	6,509,104				249	Participants	11.0
MF Partner Trade Ally	100%	1,355,806	14,873,192	92%	1,247,342	13,683,342	$2.606	$0.234	$6,035,856	236	Participants	11.0
MF Custom	103%	248,975	3,236,675	78%	194,201	2,524,613				11	Projects	13.0
MF New Construction	103%	61,726	1,074,032	78%	48,146	837,740				1	Project	17.4
MF Gas Optimization		-	-		-	-				-	Projects	
Home Energy Reports	92%	352,754	352,754	100%	352,754	352,754	$2.587	$2.587	$912,415	36,494	Participants (avg.)	1.0
Elementary Energy Education	149%	407,717	3,799,922	100%	407,717	3,799,922	$0.999	$0.107	$407,344	22,145	Kits Distributed	9.3
Total EEPS Residential		4,720,748	48,992,459	92%	4,360,317	44,564,589	$2.89	$0.28	$12,617,483	121,137		10.4
EEPS Business Programs												
C&I Jumpstart DI		-	-		-	-				-	Projects	
C&I Prescriptive Rebate	100%	2,242,911	13,457,466	79%	1,771,900	10,631,400				84	Projects	6.0
C&I NC Prescriptive	100%	19,194	383,880	79%	15,163	303,260				1	Projects	20.0
C&I Custom Rebate	97%	2,047,101	32,753,616	69%	1,412,500	22,600,000	$2.118	$0.1693	$10,458,569	29	Projects	16.0
C&I Custom New Construction	104%	160,101	3,202,020	69%	110,470	2,209,400				1	Projects	20.0
C&I Coordinated New Construction	95%	407,141	8,142,820	67%	272,785	5,455,700				16	Projects	20.0
C&I Gas Optimization	100%	1,052,062	17,674,642	102%	1,073,103	18,028,130				14	Projects	16.8
C&I Retro-Commissioning	105%	275,521	2,479,689	102%	281,032	2,529,288				25	Projects	9.0
Small Business DI	100%	19,414	248,499	93%	18,055	231,104				119	Projects	12.8
Small Business Incentives	116%	798,064	5,331,068	93%	742,200	4,957,896	$2.886	$0.385	$2,460,796	304	Projects	6.7
Small Business Custom	89%	98,767	1,283,971	93%	91,853	1,194,089				13	Projects	13.0
Small Business New Construction	100%	505	8,787	93%	470	8,178				1	Projects	17.4
Total EEPS Business		7,120,781	84,966,457	81%	5,789,531	68,148,445	$2.23	$0.19	$12,919,365	607		11.9
Other EEPS Portfolio Costs									$3,760,745			
EEPS Portfolio Total		11,841,529	133,958,916	86%	10,149,848	112,713,034	$2.89	$0.26	$29,297,593	121,744		11.3

Source: Navigant Analysis

Table 3-12. Summary of Verified Savings and Program Costs for GPY4 - GPY6 EEPS

Peoples Gas GPY4-GPY6 EEPS Ex Post Summary												
	Realization Rate	Verified Gross		Deemed / Used	Verified Net				Actual Costs	Participation		Weighted Average Measure Life
	Energy Savings (Verified Gross / Ex Ante Gross)	First Year Annual Energy Savings	Lifetime Savings	Net-to-Gross Ratio	First Year Annual Savings	Lifetime Savings	First Year Cost per First Year Annual Savings	First Year Cost per Lifetime Savings	Utility Program Costs	# Units	Units Definition	Years
	%	Therms	Therms	%	Therms	Therms	$/Therms	$/Therms	$			
EEPS Residential Programs												
Home Energy Jumpstart	100%	1,649,863	10,748,494	96%	1,585,887	10,331,069	$ 3.67	$ 0.32	$ 11,368,241	27,390	Participants	6.5
Home Energy Rebate	100%	1,782,205	30,270,891	85%	1,512,813	25,606,997				12,870	Projects / Units	17.0
MF Jumpstart DI	99%	977,006	8,954,592	91%	889,799	8,153,956				3,671	Participants	9.2
MF Prescriptive Incentives	99%	1,306,304	15,083,244	89%	1,159,996	13,354,280				491	Participants	11.5
MF Partner Trade Ally	101%	4,587,481	56,507,259	97%	4,446,699	54,901,060	$ 2.09	$ 0.18	$14,439,342	920	Participants	12.3
MF Custom	111%	451,094	6,268,460	75%	339,099	4,698,083				30	Projects	13.9
MF New Construction	103%	61,726	1,074,032	78%	48,146	837,740				1	Project	17.4
MF Gas Optimization	100%	21,004	105,020	102%	21,424	107,120				2	Projects	5.0
Home Energy Reports	104%	6,081,155	6,081,155	100%	6,081,155	6,081,155	$ 0.51	$ 0.31	$ 3,370,203	112,965	Participants (avg.)	1.0
Elementary Energy Education	137%	524,770	4,781,248	98%	513,795	4,688,225				31,136	Kits Distributed	9.1
Total EEPS Residential	103%	17,442,607	139,874,396	95%	16,598,813	128,759,686	$ 1.76	$ 0.23	$29,177,786			8.0
EEPS Business Programs												
C&I Jumpstart DI	100%	11,492	105,139	81%	9,314	85,209				8	Projects	9.1
C&I Prescriptive Rebate	100%	5,054,428	33,184,474	69%	3,498,424	22,715,767				180	Projects	6.6
C&I NC Prescriptive	100%	31,506	630,120	84%	26,490	529,800				2	Projects	20.0
C&I Custom Rebate	99%	4,725,697	72,932,563	70%	3,308,856	51,045,340	$1.883	$0.1716	$18,817,186	89	Projects	15.4
C&I Custom New Construction	104%	160,101	3,202,020	69%	110,470	2,209,400				1	Projects	20.0
C&I Coordinated New Construction	95%	407,141	8,142,820	67%	272,785	5,455,700				16	Projects	20.0
C&I Gas Optimization	98%	1,814,214	21,485,402	102%	1,850,498	21,915,105				26	Projects	11.8
C&I Retro-Commissioning	100%	895,957	5,581,869	102%	913,877	5,693,513				43	Projects	6.2
Small Business DI	109%	47,332	477,995	95%	45,154	453,406				364	Projects	10.1
Small Business Incentives	107%	1,641,411	12,438,069	95%	1,552,148	11,789,807	$2.747	$0.330	$4,907,080	580	Projects	7.6
Small Business Custom	101%	223,731	3,158,431	84%	188,257	2,640,149				35	Projects	14.1
Small Business New Construction	100%	505	8,787	93%	470	8,178				1	Projects	17.4
Total EEPS Business	100%	15,013,517	161,347,688	78%	11,776,743	124,541,374	$2.01	$0.19	$23,724,266			10.7
Other EEPS Portfolio Costs									$6,225,050			
EEPS Portfolio Total	101%	32,456,124	301,222,084	87%	28,375,556	253,301,060	$2.08	$0.23	$59,127,102			9.3

Source: Navigant Analysis

Table 3-13. Summary of Verified Savings and Program Costs for GPY6 Bridge Period Former DCEO

Peoples Gas GPY6 Bridge Period Ex Post Summary Former DCEO Programs												
	Realization Rate	Verified Gross		Deemed / Used	Verified Net				Actual Costs	Participation		Weighted Average Measure Life
	Energy Savings (Verified Gross / Ex Ante Gross)	First Year Annual Energy Savings	Lifetime Savings	Net-to-Gross Ratio	First Year Annual Savings	Lifetime Savings	First Year Cost per First Year Annual Savings	First Year Cost per Lifetime Savings	Utility Program Costs	# Units	Units Definition	Years
	%	Therms	Therms	%	Therms	Therms	$/Therms	$/Therms	$			
Former DCEO Programs												
Income Eligible - IHWAP	76%	22,754	461,906	100%	22,754	461,906	$12.423	$0.737	$3,919,879	48	Projects	20.3
Income Eligible - SF	73%	141,700	2,465,580	100%	141,700	2,465,580				677	Projects	17.4
Income Eligible - MF	104%	123,720	1,843,428	100%	123,720	1,843,428				1,220	Projects	14.9
Income Eligible - PHA	102%	27,349	546,980	100%	27,349	546,980				3	Projects	20.0
Public Sector - Prescriptive	100%	89,121	267,363	46%	40,995	122,985	$9.894	$1.768	$608,782	25	Projects	3.0
Public Sector - STEP	98%	18,513	181,427	90%	16,662	163,288				69	Projects	9.8
Public Sector - Custom	67%	5,238	78,570	74%	3,876	58,140				1	Projects	15.0
Public Sector - New Construction		-	-		-	-				-		
Public Sector - Retro-Commisioning		-	-		-	-				-		
Former DCEO Portfolio Total	88%	428,395	5,845,255	88%	377,056	5,662,307	$12.01	$0.80	$4,528,661	2,043		13.6

Source: Navigant Analysis

4. JOINT PROGRAM COST EFFECTIVENESS SUMMARY

Seven of the energy efficiency programs implemented by ComEd, Nicor Gas, Peoples Gas (PGL), and North Shore Gas (NSG) in the triennial PY7-9/GPY4-6 are "joint" programs such that they are designed and operated jointly by ComEd and one or more of the gas utilities for customers who are served both by ComEd (electric service) and Nicor Gas, Peoples Gas, or North Shore Gas (gas service). The intent of the joint programs is to gain efficiencies in the marketing and operations of the programs. Navigant's analysis[10] shows that each of joint programs, except the Home Energy Assessment/Home Energy Savings/Home Energy Jumpstart (HEA/HES/HEJ) Program, were cost-effective based on both the Illinois Total Resource Cost (IL TRC) test and the Utility Cost Test (UCT). Table 4-1 lists the seven programs jointly implemented by ComEd and the gas utilities and indicates which utilities jointly implemented the programs across the 3-year triennial period. Note that the Strategic Energy Management (SEM) Program was not a joint program in EPY7/GPY4.

Table 4-1. Summary of Jointly Implemented Programs

Program	ComEd	Nicor Gas	PGL/NSG
Home Energy Assessment / Home Energy Savings / Home Energy Jumpstart	X	X	X
Multi-Family Retrofit	X	X	X
Elementary Energy Education	X	X	X
Residential New Construction	X	X	
C&I Retro-Commissioning	X	X	X
Business New Construction	X	X	X
SEM	X	X	

Source: Navigant analysis

Cost and benefit numbers for each of the joint programs are updated to ensure that there are no instances of double counting while calculating the joint TRC and UCT values. This is one of the main reasons for the joint benefit/cost numbers not always being equal to the sum of the benefit/cost numbers filed separately for each participating utility. Incremental costs for measures that generate both gas and electric savings, such as thermostats and envelope measures, are prone to double counting, especially when based on deemed TRM values. Though double counting is most common for incremental measures, it is also possible for other TRC and UCT calculation components, including estimated avoided costs, interactive effects, and implementation costs.

A summary of the TRC and UCT calculations for each joint program is shown in Table 4-2 and Table 4-3 respectively. The tables include values of each benefit and cost component for each program, when aggregated across all utilities that were involved in its joint implementation.

The IL TRC values range from 0.85 for the HEA Program to 7.57 for the Elementary Energy Education Program and the UCT values range from 0.59 for the HEA Program to 5.36 for the SEM Program. The HEA Program has historically had low TRC and UCT values. HEA is a direct install program which has higher costs – there is a large direct install component leading to higher non-incentive costs. Since the gas component of the Elementary Energy Education Program had significantly higher gas savings and

[10] This section provides an identical discussion of joint TRC findings and results to ComEd, Nicor Gas, Peoples Gas, and North Shore Gas. Some of the findings do not apply to all of the utilities. For example, PGL and NSG did not participate in Residential New Construction or Strategic Energy Management in GPY4 through GPY6, and the findings discussed apply only to ComEd and Nicor Gas.

water savings, it resulted in a higher TRC value. The SEM Program has low incentive costs leading to a higher UCT value and relatively high benefits.

Table 4-2. Summary of Program Level Benefits, Costs and IL TRC Test – Triennial Jointly Implemented Programs

Program	Benefits						Costs			IL Total Resource Cost (TRC) Test			
	Avoided Electric Production	Avoided Electric Capacity	Avoided T&D Electric	Avoided Gas Savings	Avoided Gas Production	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL TRC Benefits	IL TRC Costs	IL TRC Test Net Benefits	IL TRC Test
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k) = (b+c+d+e+f+g)	(l) = (h+j)	(m) = (k-l)	(n) = (k/l)
Home Energy Assessment / Home Energy Savings / Home Energy Jumpstart	$6,894,958	$2,881,523	$250,605	$11,262,346	-$1,725,246	$11,582,370	$17,396,597	$15,702,854	$19,407,141	$31,146,556	$36,803,739	-$5,657,183	0.85
Multi-Family Retrofit	$2,569,955	$767,512	$271,609	$38,238,960	-$599,747	$22,208,584	$8,943,081	$13,659,735	$20,440,018	$63,456,874	$29,383,098	$34,073,775	2.16
Elementary Energy Education	$2,412,355	$835,751	$107,696	$3,073,983	-$166,525	$18,472,306	$1,415,302	$1,951,049	$1,853,435	$24,735,566	$3,268,738	$21,466,829	7.57
Residential New Construction	$1,124,207	$1,769,009	$435,873	$6,087,323	$0	$1,861,925	$1,741,727	$1,927,627	$7,777,633	$11,278,338	$9,519,361	$1,758,977	1.18
C&I Retrocommissioning	$17,883,254	$2,477,123	$1,032,240	$3,537,410	$0	$703,293	$8,445,535	$10,340,857	$11,095,838	$25,633,319	$19,541,373	$6,091,946	1.31
SEM	$3,931,157	$0	$0	$4,870,637	$0	$753,019	$1,248,903	$393,690	$366,573	$9,554,813	$1,615,475	$7,939,337	5.91
Business New Construction	$56,606,657	$39,386,823	$4,239,954	$13,125,866	$0	$4,426,889	$11,692,513	$18,389,910	$59,453,025	$117,786,190	$71,145,537	$46,640,652	1.66
Aggregate	**$91,422,543**	**$48,117,741**	**$6,337,977**	**$80,196,526**	**-$2,491,519**	**$60,008,386**	**$50,883,658**	**$62,365,722**	**$120,393,663**	**$283,591,655**	**$171,277,321**	**$112,314,333**	**1.66**

Note: The cost-benefit results included here are reflective of only the EEPS portion of the ComEd portfolio and are not inclusive of the Illinois Power Agency (IPA) portion.
Source: Navigant analysis

Table 4-3. Summary of Program Level Benefits, Costs and Utility Cost Test (UCT) – Triennial Jointly Implemented Programs

Program	Benefits						Costs			IL Utility Cost Test (UCT)			
	Avoided Electric Production	Avoided Electric Capacity	Avoided T&D Electric	Avoided Gas Savings	Avoided Gas Production	Other Benefits	Non-Incentive Costs	Incentive Costs	Incremental Costs (Net)	IL UCT Benefits	IL UCT Costs	IL UCT Test Net Benefits	IL UCT Test
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k) = (b+c+d+e+f)	(l) = (h+i)	(m) = (k-l)	(n) = (k/l)
Home Energy Assessment / Home Energy Savings / Home Energy Jumpstart	$6,894,958	$2,881,523	$250,605	$11,262,346	-$1,725,246	$0	$17,396,597	$15,702,854	$19,407,141	$19,564,186	$33,099,451	-$13,535,266	0.59
Multi-Family Retrofit	$2,569,955	$767,512	$271,609	$38,238,960	-$599,747	$0	$8,943,081	$13,659,735	$20,440,018	$41,248,290	$22,602,816	$18,645,474	1.82
Elementary Energy Education	$2,412,355	$835,751	$107,696	$3,073,983	-$166,525	$0	$1,415,303	$1,951,049	$1,853,435	$6,263,260	$3,366,352	$2,896,907	1.86
Residential New Construction	$1,124,207	$1,769,009	$435,873	$6,087,323	$0	$0	$1,741,727	$1,927,627	$7,777,633	$9,416,412	$3,669,354	$5,747,058	2.57
C&I Retrocommissioning	$17,883,254	$2,477,123	$1,032,240	$3,537,410	$0	$0	$8,445,535	$10,340,857	$11,095,838	$24,930,027	$18,786,392	$6,143,635	1.33
SEM	$3,931,157	$0	$0	$4,870,637	$0	$0	$1,248,903	$393,690	$366,573	$8,801,794	$1,642,593	$7,159,201	5.36
Business New Construction	$56,606,657	$39,386,823	$4,239,954	$13,125,866	$0	$0	$11,692,513	$18,389,910	$59,453,025	$113,359,301	$30,082,423	$83,276,878	3.77
Aggregate	**$91,422,543**	**$48,117,741**	**$6,337,977**	**$80,196,526**	**-$2,491,519**	**$0**	**$50,883,658**	**$62,365,722**	**$120,393,663**	**$223,583,268**	**$113,249,381**	**$110,333,888**	**1.97**

Note: The cost-benefit results included here are reflective of only the EEPS portion of the ComEd portfolio and are not inclusive of the Illinois Power Agency (IPA) portion.
Source: Navigant analysis

When combining these programs, some have a significant change to the TRC and UCT. The programs most effected are:

- Elementary Energy Education – all gas utilities reduce the ComEd TRC and UCT. The gas utilities program costs are higher compared to the avoided costs benefit.

- Residential New Construction – Nicor Gas TRC improves the joint TRC to be above the ComEd TRC which is below 1.0.

- Home Energy programs
    - NSG and PGL TRCs are much higher than the other utilities.
    - Lighting measures are cost-effective at the measure level and the largest source of the savings on the electric side but are not sufficient to balance the non-incentive costs.
    - For electric measure-level TRCs, electric only basis, the non-cost effective measures were standard programmable thermostats/reprogramming (0.14-0.22) and advanced power strips (APS)-tier 1 (0.56). Smart thermostats (2.02) and advanced power strips tier 2 (1.18) were cost effective, however. For gas measure-level TRCs, gas only basis, the non-cost effective measures were (for some utilities in some years): water heater setback (0.67, short life, minor measure) and smart thermostats with programmable baseline in condos (0.85-1.03, minor measure). In most other scenarios, thermostats were quite cost-effective on the gas side (1.30-2.91). On a joint basis, the gas and electric thermostat benefits were complementary at the measure level.
    - Considering program level TRCs (factoring in program admin and delivery costs), the HEA/HES/HEJ programs have significantly higher non-incentive costs relative to benefits than the other joint programs. The incremental measure costs for HEA/HES/HEJ relative to benefits are higher than other programs but generally comparable.
    - The low program TRCs are driven more by non-incentive program costs than inclusion of non-cost-effective measures. That suggests improving the TRC by taking steps to reduce program delivery costs per home and also increasing the first year and lifetime savings per home visit. The leave-behind kit of weatherization measures being planned for 2020 would increase savings per home with little extra delivery cost. The TRC is also helped by longer lived measures, and measures with lower incremental costs per savings benefit. PGL and NSG have noted that market saturation and repeat participation are becoming an issue (it is the eighth gas program year). The ComEd HEA and Nicor Gas HES programs have cost-effective TRCs in 2018.

5. List of Final Reports

All recommendations and impact and process evaluation results are provided in reports produced annually. Annual evaluation reports can be found on the Illinois Energy Efficiency Stakeholder Advisory Group website[11]. A list of final reports by file name and program year is provided below.

GPY4

1. PG NSG GPY4 Home Energy Jumpstart Evaluation Report 2016-03-01 Final
2. PG_NSG GPY4 CI Custom Program Evaluation Report 2016-03-30 Final
3. PG_NSG GPY4 CI Gas Optimization Program Eval Report 2016-03-01 Final
4. PG_NSG GPY4 CI Prescriptive Eval Report 2016-03-30 Final
5. PG_NSG GPY4 EEE Evaluation Report 2016-05-05 Final
6. PG_NSG GPY4 Home Energy Reports Program Evaluation Report 2016-03-01 Final
7. PG_NSG GPY4 Multi-Family Program Evaluation Report 2016-03-17 Final
8. PG-NSG GPY4 Small Business Program Eval Report 2016-03-30 Final
9. PG_NSG Home Energy Rebates GPY4 Eval Report 2016-03-30 Final
10. RCx PY7-4 Evaluation Report 2016-03-19 Final

PY5

1. ComEd CI New Construction EPY8-GPY5 Evaluation Report 2017-01-15 Final
2. EPY8-GPY5 RCx Evaluation Report 2017-02-13 Final
3. PG_NSG GPY5 CI Custom Program Evaluation Report 2017-03-08 Final
4. PG_NSG GPY5 CI Gas Optimization Evaluation Report 2017-03-03 Final
5. PG_NSG GPY5 CI Prescriptive Program Evaluation Report 2017-01-25 Final
6. PG_NSG GPY5 EEE Evaluation Report 2017-01-25 Final
7. PG_NSG GPY5 HEJ Program Evaluation Report 2017-03-21 Final
8. PG_NSG GPY5 HERebate Program Evaluation Report 2017 02 10 Final
9. PG_NSG GPY5 Home Energy Reports Evaluation Report 2017-03-31 Final
10. PG_NSG GPY5 Multi-Family Program Evaluation Report 2017-03-08 Final
11. PG_NSG GPY5 Small Business Program Evaluation Report 2017-03-10 Final

PY6

1. ComEd Nicor PG NSG EPY9 GPY6 Non-Res New Construction Impact Evaluation Report 2018-04-30 Final
2. ComEd RCx EPY9 GPY6 Impact Evaluation Report 2018-04-19 Final
3. Coordinated Utilities Non-Res NC EPY9-GPY6 NTG Memo 2018-09-21 Final
4. Coordinated Utilities RCx EPY9 GPY6 Process Results 2018-11-21
5. Coordinated Utilities RCx EPY9-GPY6 NTG Memo 2018-10-17
6. PGL and NSG CI Prescriptive Impact GPY6 Evaluation Report 2018-06-20 Final
7. PGL and NSG GPY6 EEE Impact Evaluation Report 2019-04-30 Final
8. PGL and NSG GPY6 HEJ Impact Evaluation Report 2018-09-04 Final Revised
9. PGL and NSG GPY6 MF Impact Evaluation Report 2018-08-14 Final Revised
10. PGL and NSG GPY6 Small Bus Impact Evaluation Report 2018-08-14 Final
11. PGL_NSG GPY6 CI Custom Impact Evaluation Report 2018-08-24
12. PGL_NSG GPY6 Gas Optimization Impact Evaluation Report 2018-06-22 Final
13. PGL_NSG GPY6 Home Energy Rebate Impact Eval Report 2018-09-04 Final Revised
14. PGL_NSG GPY6 Home Energy Reports Impact Eval Report 2018-08-14 Final
15. PGL_NSG Home Energy Rebate GPY6 NTG Research Memo 2017-05-26
16. PGL_NSG PY6 HEJ Process Evaluation Slidedoc 2019-03-07 Final
17. PGL-NSG Gas Optimization Program GPY6 NTG Memo 2018-10-05 Final

[11] http://www.ilsag.info/evaluation-documents.html

18. PGL-NSG Home Energy Jumpstart GPY6 NTG Research Memo 2018-10-05 Final

PY6 BRIDGE PERIOD FORMER DCEO PROGRAMS

1. Coordinated Utilities PS EPY9+ GPY6+ Non-Res New Construction Impact Evaluation Report 2018-08-29 Final
2. Coordinated Utilities Public Sector Bridge EPY9-GPY6 Impact Evaluation RCx Report 2018-08-09 Final
3. PGL and NSG GPY6-Bridge Public Sector Impact Eval Report 2018-10-08 Final
4. PGL_NSG GPY6 Bridge Period Income Eligible Programs Impact Eval Report 2018-09-11 Final

GPY4 through GPY6 Summary Reporting

1. Three_Year_Joint_TRC_Summary_GPY4-6_EPY7-9_2020-02-12_Final
2. Peoples Gas GPY4-6 TRC and Savings Summary 2020-03-06 Final