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# Illinois Department of Commerce and Economic Opportunity Plan 3 Summary Impact Evaluation Report for Ameren Illinois Company

Final  
February 7, 2019



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# 1. Introduction

This report summarizes the impact evaluation of the energy efficiency programs administered by the Illinois Department of Commerce and Economic Opportunity (the DCEO) in Ameren Illinois Company's (AIC's) service territory during Electric Program Year (EPY) 9 and Gas Program Year (GPY) 6 - the period between June 1, 2016 and May 31, 2017.<sup>1</sup> This report also summarizes results from previous program evaluations conducted by the firm ADM Associates Inc. (ADM) for EPY7/GPY4 and EPY8/GPY5, or the period June 1, 2014 through May 31, 2016, and provides a summary of the three-year program achievements. In total, the period between June 1, 2014 and May 31, 2017 is known as "Plan 3."

## 1.1 Overview/Background

Beginning in June 2011 (EPY4/GPY1) through May 31, 2017 (EPY9/GPY6), the DCEO administered energy efficiency programs for public sector and low-income customers within the state of Illinois. However, in December 2016, the state of Illinois passed the Future Energy Jobs Act (FEJA), which restructured energy efficiency program delivery in Illinois. This restructuring encompassed a number of significant changes, including the discontinuation of the energy efficiency programs offered through the DCEO and the expansion of Illinois investor-owned utility companies' energy efficiency programs. As part of this expansion, beginning on June 1, 2017, AIC began offering energy efficiency programs to public sector nonresidential customers (e.g., schools, government buildings) and public housing facilities that were previously ineligible for AIC energy efficiency programs.

Sections 8-103 and 8-104 of the Illinois Public Utilities Act require annual independent evaluations of Energy Efficiency Plan programs, as well as final review of the three-year plan results. ADM performed independent evaluations of the DCEO's EPY7/GPY4 and EPY8/GPY5 programs.<sup>2</sup> However, ADM did not evaluate or prepare a report for EPY9/GPY6 due to the lack of funding appropriation. As such, in Docket No. 17-0212, the Illinois Commerce Commission (ICC) ordered that independent evaluator(s) selected by AIC perform any remaining evaluation work related to DCEO's programs for the period of June 1, 2014 through May 31, 2017 with full cooperation of DCEO.

AIC retained Opinion Dynamics to conduct these evaluation activities. As detailed in the scope of work for this evaluation, AIC and ICC Staff agreed that this evaluation should take the form of an abridged summarization of key metrics by program year for Plan 3. These findings, and the evaluation results for DCEO programs operated in Commonwealth Edison, Nicor Gas, Peoples Gas, and North Shore Gas service territories, developed separately,<sup>3</sup> will be presented in a forthcoming statewide report.

## 2. Description of Programs Evaluated

Table 1 describes the DCEO programs offered during Plan 3 and included in this evaluation.

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<sup>1</sup> Please note that AIC does not use the "EPY" and "GPY" terminology and simply refers to "Program Years" (PYs). However, we use the "EPY" and "GPY" terminology in this memo to ensure consistent statewide reporting.

<sup>2</sup> Please note that while ADM performed evaluation work in EPY8/GPY5, reporting for this period was never finalized. We treat ADM's draft results for this period as if they were final.

<sup>3</sup> Remaining evaluation activities for the DCEO programs operated in other Illinois utility territories were conducted by Navigant, the independent evaluator for those utilities.

Table 1. Description of DCEO Energy Efficiency Programs

Sector	Program	Program Description
Public Sector	Standard	Offers incentives on a prescriptive basis for qualifying equipment purchased and installed by the participant
	Custom	Generates electric and gas savings by helping public sector customers identify and implement energy saving projects and provides incentives on a per-kWh or per-therm basis
	Energy Efficiency Aggregation Standard (EE Agg. Standard)	Funded by the Energy Efficiency Trust Fund, the programs allow public sector customers to combine energy efficiency projects in an effort to simplify the application for and implementation of projects that may be submitted as standalone projects
	Energy Efficiency Aggregation Custom (EE Agg. Custom)	
	Free Lights	Serves as a one-stop street lighting resource for municipalities in Illinois by offering LED upgrades to street, protective, area, and decorative lighting
	New Construction	Provides incentives to public sector customers to improve the efficiency of newly constructed public buildings
	Clean Water Custom	Assists public sector in implementation of water and wastewater energy efficiency upgrades by leveraging and coordinating with other energy efficiency programs offered by AIC, the Illinois EPA, and water and wastewater trade associations
	Combined Heat and Power (CHP)	Encourages investment in Conventional or Topping Cycle CHP systems as well as Waste Heat-to-Power or Bottoming Cycle CHP systems
	Retro-Commissioning (RCx)	Provides application, planning, investigation, and recommendation phase services to eligible clients for new start projects
	Savings Through Efficient Products Program (STEP)	Offers free, cost effective and easy-to-install energy efficient measures to over 1,000 qualifying public facilities in Illinois; the program includes an energy assessment/audit to assess direct install equipment needs and identify future opportunities for larger retrofits
Boiler Tune-Up	Aims to increase efficiency of existing natural gas boilers in the public sector and addresses mechanical pipe insulation, steam trap repair or replacement (including steam trap audits), boiler reset controls, parallel positioning controls, shut-off air dampers, and removable insulation	
Low Income	Affordable Housing New Construction (AHNC)	Provides grants to non-profit and for-profit affordable housing developers to help offset additional costs for energy efficient building practices in residential new construction and gut rehabilitation projects
	Residential Retrofit	Provides grants to program partners to fund direct install energy efficiency measures in low income customer homes; provides cost effective energy efficient weatherization measures, which include ENERGY STAR rated refrigerators, water heaters, attic insulation, air sealing, and blower door, among others
	Public Housing	Provides education, outreach, and incentives to eligible PHAs and upgrades old, inefficient measures in public housing residential units and common areas
Market Transformation	K-12 Energy Efficiency Program (K-12)	Raises funds for K-12 educators through the sale of ENERGY STAR qualified CFLs and LEDs and other energy efficient products; funds are used to create engaging lessons for K-12 students that increase their awareness of energy efficiency

Sector	Program	Program Description
	Building Operator Certification (BOC)	Provides training and education for building operators
	Energy Assessments administered by Smart Energy Design Center (SEDAC)	Provides participants with no-cost design assistance report detailing energy cost reduction measures deemed appropriate for their facility; Recommendations bundle cost-effective measures resulting from analyzing buildings as a whole
	Building Energy Code Compliance (Codes)	Provides a full day training course for building professionals and technical assistance on interpreting the building energy code; the program was developed to ensure that the State of Illinois achieves a 90% compliance rate with the energy code by 2017

### 3. Evaluation Objectives and Activities

#### 3.1 Evaluation Objectives

The evaluation objectives for the abridged summarization of DCEO's Plan 3 programs were as follows:

- Summarize the following metrics for EPY9/GPY6:
  - Actual expenditures as compared to budgets
  - Actual energy savings (kWh/therms) as compared to goals
  - Specific expenditures, as available
- Summarize the following metrics for Plan 3:
  - Actual expenditures as compared to budgets
  - Actual energy savings (kWh/therms) as compared to goals
  - Specific expenditures, as available

#### 3.2 Evaluation Activities

In fulfillment of these evaluation objectives, we performed a number of evaluation activities, described below.

##### Data Acquisition

In a coordinated effort with Navigant, the independent evaluator for ComEd, Nicor Gas, Peoples Gas, and North Shore Gas, Opinion Dynamics worked with the DCEO and the various DCEO program implementers (e.g. the Midwest Energy Efficiency Alliance (MEEA), the University of Illinois, and Elevate Energy) to acquire relevant data for EPY9/GPY6 or the period June 1, 2016 through May 31, 2017. The evaluation team developed and submitted to DCEO and its implementers written requests for relevant data. We performed additional follow-up outreach via phone and email as necessary. Our data requests covered participant and/or measure and utility level data that included electric and gas savings and program costs or expenditures, as well as documentation that would provide information regarding program implementation and/or program design such as reports. The Opinion Dynamics evaluation team also reviewed the DCEO 2014 – 2017 ICC Compliance filing filed on February 27, 2014 and the EPY7/GPY4 and EPY8/GPY5 EM&V reports completed by ADM to learn about the DCEO programs, and to serve as a source for EM&V results for EPY7/GPY4 and EPY8/GPY5.

## Collaboration with Navigant

The Opinion Dynamics and Navigant evaluation teams collaborated and coordinated on several key elements of the abridged EM&V review process including the data request, data acquisition and review, analytic approach and reporting to ensure statewide consistency.

## Limited Gross Impact Evaluation

As part of this evaluation, we conducted an abridged impact evaluation for EPY9/GPY6 based on review of program tracking data acquired from DCEO and the various program implementers.

We did not individually verify savings for each EPY9/GPY6 measure and/or project. The EM&V review primarily consisted of the following steps:

- Reviewed available program tracking datasets in their entirety for reasonableness and to identify any obvious or significant errors.
- Conducted limited review of measure savings assumptions and algorithms when detailed measure level tracking data was available.
- Identified the most appropriate data fields for analysis of savings and spending, reaching out to the data source for clarification if needed.
- Identified “completed” and “paid” projects within the available tracking data and implemented within Ameren Illinois’ service territory during EPY9 and GPY6.
- Summarized savings and cost information for eligible projects.
- Where available, reviewed reports or program summaries and documentation for major projects to verify savings, measures installed, projects completed, and participation.
- In addition, we reviewed, revised as necessary, and summarized results from past DCEO evaluation reports completed by ADM for all programs offered during EPY7/GPY4 and EPY8/GPY5. We include this summary of results from ADM’s program evaluations in this report.

## Net Impact Evaluation

We used the most recent net-to-gross ratios (NTGRs) originally calculated by ADM and available on the Illinois Energy Efficiency Stakeholder Advisory Group (SAG) website to calculate net savings for the EPY9/GPY6 DCEO programs when available.<sup>4</sup>

## Cost-Effectiveness Evaluation

An assessment of cost-effectiveness for the Plan 3 DCEO programs will be presented in the forthcoming statewide report.

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<sup>4</sup> We primarily sourced this information from Navigant memos provided for use during the Transition Period and 2018 program years, and as such, these NTGRs exclude the “plans score” per Navigant’s explanation in these memos. Source: Navigant. *Bridge Period Public Sector Programs’ Net-to-Gross Recommendations Summary*, March 30, 2018. [http://ilsagfiles.org/SAG\\_files/NTG/2018\\_NTG\\_Meetings/ComEd\\_DCEO\\_Public\\_Sector\\_NTGR\\_Research\\_Memo\\_2018-03-30.pdf](http://ilsagfiles.org/SAG_files/NTG/2018_NTG_Meetings/ComEd_DCEO_Public_Sector_NTGR_Research_Memo_2018-03-30.pdf) (Accessed September 26, 2018).

## Reporting

We provide this report, which summarizes DCEO program activities for the period of June 1, 2014 through May 31, 2017 in table format with brief descriptions of results from the evaluation of EPY9/GPY6. Where data is available, we report on electric and gas savings and actual expenditures.

## 4. Summary of Data Received

The Opinion Dynamics and Navigant evaluation teams were successful in acquiring some data for all but one of the DCEO energy efficiency programs. However, there are various limitations to the program tracking data we received. We describe the data received and any limitations thereof for each program in Table 2.

Table 2. Description of Program Tracking Data Received

Program	EPY9/GPY6 Data Received	EPY9/GPY6 Data Received Date	Description of Data/Materials Received for EPY9/GPY6
<b>Public Sector Programs</b>			
Standard	✓	October 12, 2018	<ul style="list-style-type: none"> <li>Received project and measure level data by utility, program, and subprogram that includes electric and gas savings and project level incentive payments</li> </ul>
Custom	✓	October 12, 2018	<ul style="list-style-type: none"> <li>Received project and measure level data by utility, program, and subprogram that includes electric and gas savings and project level incentive payments</li> </ul>
EE Agg. Standard	✓	October 12, 2018	<ul style="list-style-type: none"> <li>Received project and measure level data by utility, program, and subprogram that includes electric and gas savings and project level incentive payments</li> </ul>
EE Agg. Custom	✓	October 12, 2018	<ul style="list-style-type: none"> <li>Received project and measure level data by utility, program, and subprogram that includes electric and gas savings and project level incentive payments</li> </ul>
Free Lights	✓	August 16, 2018 and October 12, 2018	<ul style="list-style-type: none"> <li>Received project level data by utility from two implementers</li> <li>Data received includes electric savings and project level cost/incentive payments</li> </ul>
New Construction	✓	August 21, 2018	<ul style="list-style-type: none"> <li>Received project level data by utility that includes electric and gas savings and project level cost</li> </ul>
Clean Water Custom	✓	October 12, 2018	<ul style="list-style-type: none"> <li>Received project and measure level data by utility, program, and subprogram that includes electric and gas savings and project level incentive payments</li> </ul>
CHP	Not applicable	Not applicable	<ul style="list-style-type: none"> <li>Determined that program was not offered for AIC in EPY9/GPY6</li> </ul>
RCx	✓	August 21, 2018	<ul style="list-style-type: none"> <li>Received property/project level data by utility that includes electric and gas savings and property/project level cost</li> </ul>
STEP	✓	August 27, 2018 and October 5, 2018	<ul style="list-style-type: none"> <li>Received measure level data by utility that includes electric and gas savings</li> <li>Received program level cost</li> </ul>
Boiler Tune-Up	✓	October 2, 2018	<ul style="list-style-type: none"> <li>Received limited measure level data that includes gas savings and incentives paid by utility</li> </ul>



Program	EPY9/GPY6 Data Received	EPY9/GPY6 Data Received Date	Description of Data/Materials Received for EPY9/GPY6
<b>Low Income Programs</b>			
AHNC	✓	September 6, 2018	<ul style="list-style-type: none"> <li>Received property level data that includes electric and gas savings by utility</li> <li>Also received additional materials such as application forms, measure spec sheets, checklists, photos/images, by property</li> <li>Did not receive program or property level cost data</li> </ul>
Residential Retrofit	✓	October 3, October 12, and November 2, 2018	<ul style="list-style-type: none"> <li>Received project and measure level data by utility, program, and subprogram that includes electric and gas savings and project level incentive payments for grants subcomponent</li> <li>Received project and measure level data by utility that includes electric and gas savings and project level cost for Energy Savers subcomponent</li> <li>Received measure level data as well as data summarizing electric and gas savings by utility and measure type (e.g., LED, furnace, attic insulation, air sealing, etc.) as well as program cost by utility for Weatherization subcomponent</li> </ul>
Public Housing	✓	November 5, 2018	<ul style="list-style-type: none"> <li>Received high level summary of EPY9/GPY6 results in terms of number of participating PHAs, properties, measures, electric and gas savings, and grant amounts; also received measure level data</li> </ul>
<b>Market Transformation Programs</b>			
K-12	✓	October 4, 2018	<ul style="list-style-type: none"> <li>Received quarter level data that includes electric savings and NTGRs</li> <li>Received program level cost/spend data, participant list, and final Narrative Report</li> </ul>
BOC	✓	August 23, 2018	<ul style="list-style-type: none"> <li>Received participant data, including corresponding utility as well as program level spend by utility</li> <li>Received Narrative Report, which includes information on participants, trainings conducted/attended, including training start and end dates, and number of training hours</li> </ul>
SEDAC	✓	August 21, 2018	<ul style="list-style-type: none"> <li>Received Narrative Report and spreadsheet tracking data with measure level data by utility that includes electric and gas savings</li> </ul>
Codes	×	Not applicable	<ul style="list-style-type: none"> <li>No participation nor program cost data received</li> <li>This is a compliance training program that produces no direct energy savings</li> </ul>

Source: Opinion Dynamics and Navigant

## 5. Summary of Plan 3 Results

Table 3 presents energy savings achieved during EPY7-9/GPY4-6 from DCEO programs in AIC territory and compares them to portfolio goals. Overall, DCEO programs fell short of their electric savings goals, but exceeded gas savings goals.

Table 3. Summary of Plan 3 DCEO Portfolio Energy Savings

Program Year	Ex Post Net kWh	Portfolio Goal	% Achieved	Ex Post Net Therms	Portfolio Goal	% Achieved
EPY7/GPY4	33,496,606	38,350,983	87%	824,815	872,983	94%
EPY8/GPY5	18,944,618	39,485,849	48%	651,005	912,209	71%
EPY9/GPY6	40,705,535	41,481,630	98%	1,667,500	962,759	173%
<b>AIC Total</b>	<b>93,146,759</b>	<b>119,318,462</b>	<b>78%</b>	<b>3,143,320</b>	<b>2,747,951</b>	<b>114%</b>

Source: Opinion Dynamics analysis of DCEO tracking data and materials

Table 4 presents spending during EPY7-9/GPY4-6 on DCEO programs in AIC territory and compares it to portfolio budgets.

Table 4. Summary of Plan 3 DCEO Portfolio Spending

Program Year	Total Expenditures	Approved Budget	% Budget
EPY7/GPY4	\$14,584,748	\$18,782,274	78%
EPY8/GPY5	\$7,423,129	\$19,053,418	39%
EPY9/GPY6 <sup>a</sup>	\$21,793,454	\$19,143,384	114%
<b>AIC Total</b>	<b>\$43,801,331</b>	<b>\$56,979,076</b>	<b>77%</b>

Source: Opinion Dynamics analysis of DCEO tracking data and materials

<sup>a</sup> Please note that EPY9/GPY6 expenditures exceed the total approved EPY9/GPY6 budget. In accordance with the Order on Reopening filed on September 28, 2016, the ICC gave DCEO permission to roll over unspent funds from EPY8/GPY5 to EPY9/GPY6. Actual EPY9/GPY6 expenditures took advantage of this order to fund programs and therefore exceed the original approved budget.

### 5.1 EPY9/GPY6 Result Summary

Table 5 presents DCEO portfolio electric savings in AIC territory for EPY9.

Table 5. DCEO EPY9 Portfolio Savings

Sector	Program	Electric Savings (kWh)				
		Ex Ante Gross	Gross Realization Rate (RR)	Ex Post Gross	NTGR	Ex Post Net
Public Sector	Standard	11,160,655	100%	11,148,567	65%	7,246,569
	Custom	9,716,667	100%	9,716,667	83%	8,064,834
	EE Agg. Standard	39,045	2741%	1,070,137	65%	695,589
	EE Agg. Custom	8,257,733	100%	8,257,733	83%	6,853,919
	Free Lights	6,701,817	95%	6,383,149	96%	6,127,823
	New Construction	2,456,542	100%	2,456,542	53%	1,301,967
	Clean Water Custom	2,024,420	100%	2,024,420	83%	1,680,269
	CHP	Program was not operated				
	RCx	3,030,567	83%	2,519,287	98%	2,468,901

Sector	Program	Electric Savings (kWh)				
		Ex Ante Gross	Gross Realization Rate (RR)	Ex Post Gross	NTGR	Ex Post Net
	STEP	987,205	101%	993,211	96%	953,483
	Boiler Tune-Up	Gas-only program				
Low Income	AHNC	456,662	100%	456,662	100%	456,662
	Residential Retrofit	2,552,335	100%	2,549,901	100%	2,549,901
	Public Housing	1,090,247	100%	1,090,247	100%	1,090,247
Market Transformation	K-12	134,517	74%	99,966	84%	83,972
	BOC	657,472	161%	1,057,863	N/A <sup>a</sup>	1,057,863
	SEDAC	200,000	37%	73,537	N/A <sup>a</sup>	73,537
	Codes	Program does not produce energy savings				
<b>Total</b>		<b>49,465,884</b>	<b>101%</b>	<b>49,897,890</b>	<b>82%</b>	<b>40,705,535</b>
<b>Goal</b>		<b>41,481,630</b>				
<b>% of Goal Achieved</b>		<b>98%</b>				

Source: Opinion Dynamics analysis of DCEO tracking data and materials

<sup>a</sup> In these cases, evaluation of the program produces what should be considered as net savings. Therefore, we list "N/A" as the NTGR, but in practice, ex post net savings equal what is reported as "ex post gross" savings.

Table 6 presents DCEO portfolio gas savings in AIC territory for GPY6.

Table 6. DCEO GPY6 Portfolio Savings

Sector	Program	Gas Savings (therms)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
Public Sector	Standard	129,942	100%	129,942	46%	59,773
	Custom	652,152	100%	652,152	74%	482,593
	EE Agg. Standard	None reported				
	EE Agg. Custom	None reported				
	Free Lights	Electric-only program				
	New Construction	76,334	100%	76,334	65%	49,617
	Clean Water Custom	Electric-only program				
	CHP	Program was not operated				
	RCx	78,915	69%	54,225	94%	50,972
	STEP	17,687	101%	17,883	90%	16,095
	Boiler Tune-Up	750,278	100%	750,278	87%	652,742
Low Income	AHNC	18,600	100%	18,600	100%	18,600
	Residential Retrofit	292,247	99%	290,433	100%	290,433
	Public Housing	118,291	39%	45,665	100%	45,665
Market Transformation	K-12	Electric-only program				
	BOC	11,140	9%	1,011	N/A <sup>a</sup>	1,011
	SEDAC	None reported				
	Codes	Program does not produce energy savings				

Sector	Program	Gas Savings (therms)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
<b>Total</b>		<b>2,145,586</b>	<b>95%</b>	<b>2,036,523</b>	<b>82%</b>	<b>1,667,500</b>
<b>Goal</b>		<b>962,759</b>				
<b>% of Goal Achieved</b>		<b>173%</b>				

Source: Opinion Dynamics analysis of DCEO tracking data and materials

<sup>a</sup> In this case, evaluation of the program produces what should be considered as net savings. Therefore, we list "N/A" as the NTGR, but in practice, ex post net savings equal what is reported as "ex post gross" savings.

Table 7 presents DCEO portfolio expenditures in AIC territory at the program level for EPY9/GPY6.

Table 7. DCEO EPY9/GPY6 Portfolio Expenditures and Budget

Sector	Program	Electric Expenditures	Gas Expenditures	Total Expenditures	
Public Sector	Standard	\$2,297,874	\$344,784	\$2,642,658	
	Custom	\$1,233,958	\$1,678,899	\$2,912,857	
	EE Agg. Standard	\$431,315	\$0	\$431,315	
	EE Agg. Custom	\$1,190,928	\$0	\$1,190,928	
	Free Lights	\$3,734,336	\$0	\$3,734,336	
	New Construction	\$735,986	\$503,643	\$1,239,629	
	Clean Water Custom	\$728,791	\$0	\$728,791	
	CHP	Program not operated			
	RCx	Not available			\$65,281
	STEP	\$376,314	\$42,789	\$419,103	
	Boiler Tune-Up	\$0	\$319,737	\$319,737	
Low Income	AHNC	\$602,200	\$245,268	\$847,468	
	Residential Retrofit	\$2,648,927	\$1,439,547	\$4,088,473	
	Public Housing	\$576,780	\$365,147	\$941,927	
Market Transformation	K-12	\$139,097	\$0	\$139,097	
	BOC	\$68,983	\$15,182	\$84,165	
	SEDAC	\$117,024	\$0	\$117,024	
	Codes	\$99,150	\$21,097	\$120,248	
	Other MT (DOMUS, Future Energy Enterprises, BITE, ERC, Codes, IL HP, Leidos)	\$404,661	\$85,059	\$489,720	
Portfolio Non-Program Costs		\$1,024,545	\$256,153	\$1,280,697	
<b>Total</b>		<b>N/A<sup>a</sup></b>	<b>N/A<sup>a</sup></b>	<b>\$21,793,454</b>	
<b>Budget</b>		<b>\$15,219,781</b>	<b>\$3,923,603</b>	<b>\$19,143,384</b>	
<b>% of Budget</b>		<b>N/A<sup>a</sup></b>	<b>N/A<sup>a</sup></b>	<b>114%</b>	

Source: Opinion Dynamics analysis of DCEO tracking data and materials

<sup>a</sup> Because fuel-level spending was not available in all cases, we do not compute total electric and gas spending.

## 5.2 EPY8/GPY5 Result Summary

Table 8 presents DCEO portfolio electric savings in AIC territory for EPY8.

Table 8. DCEO EPY8 Portfolio Savings

Sector	Program	Electric Savings (kWh)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
Public Sector	Standard	1,116,293	108%	1,201,074	73%	880,806
	Custom	7,137,552	118%	8,425,929	97%	8,159,464
	EE Agg. Standard	None reported				
	EE Agg. Custom	None reported				
	Free Lights	Program was not operated				
	New Construction	None reported				
	Clean Water Custom	Not available	N/A	Not available	N/A	3,042,000
	CHP	Program was not operated				
	RCx	None reported				
	STEP	114,320	112%	128,352	97%	123,929
	Boiler Tune-Up	Gas-only program				
Low Income	AHNC	778,610	61%	474,552	100%	474,552
	Residential Retrofit	Not available	N/A	2,121,875	100%	2,121,875
	Public Housing	Not available	N/A	4,126,195	100%	4,126,195
Market Transformation	K-12	None reported				
	BOC	Not available	N/A	Not available	N/A <sup>a</sup>	15,797
	SEDAC	None reported				
	Codes	Program does not produce energy savings				
<b>Total<sup>b</sup></b>						<b>18,944,618</b>
<b>ICC Goal</b>						<b>39,485,849</b>
<b>% of ICC Goal Achieved</b>						<b>48%</b>

Source: Draft EPY8 ADM program evaluations reviewed and revised by Opinion Dynamics.

<sup>a</sup> In this case, evaluation of the program produces what should be considered as net savings. Therefore, we list "N/A" as the NTGR, but in practice, ex post net savings equal what is reported as "ex post gross" savings.

<sup>b</sup> We do not provide totals for ex ante gross savings, gross realization rates, ex post gross savings, or NTGRs for EPY8/GPY5 and EPY7/GPY4. Ex ante and ex post gross savings are inconsistently available prior to EPY9/GPY6 and therefore totals would be erroneous.

Table 9 presents DCEO portfolio gas savings in AIC territory for GPY5.

Table 9. DCEO GPY5 Savings

Sector	Program	Gas Savings (therms)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
Public Sector	Standard	None reported				
	Custom	564,641	89%	504,331	94%	474,071
	EE Agg. Standard	None reported				

Sector	Program	Gas Savings (therms)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
	EE Agg. Custom	None reported				
	Free Lights	Program was not operated				
	New Construction	None reported				
	Clean Water Custom	Electric-only program				
	CHP	Program was not operated				
	RCx	None reported				
	STEP	745	80%	594	88%	520
	Boiler Tune-Up	None reported				
Low Income	AHNC	11,034	106%	11,703	100%	11,703
	Residential Retrofit	Not available	N/A	79,383	100%	79,383
	Public Housing	Not available	N/A	85,328	100%	85,328
Market Transformation	K-12	None reported				
	BOC	None reported				
	SEDAC	None reported				
	Codes	Program does not produce energy savings				
<b>Total</b>						<b>651,005</b>
<b>Goal</b>						<b>912,209</b>
<b>% of Goal Achieved</b>						<b>71%</b>

Source: Draft EPY8 ADM program evaluations reviewed and revised by Opinion Dynamics.

Table 10 presents DCEO portfolio expenditures in AIC territory at the program level for EPY8/GPY5.

Table 10. DCEO EPY8/GPY5 Portfolio Expenditures and Budget

Sector	Program	Electric Expenditures	Gas Expenditures	Total Expenditures
Public Sector	Standard	\$938,673	\$825,075	\$1,763,748
	Custom			
	EE Agg. Standard	\$7,040	\$0	\$7,040
	EE Agg. Custom			
	Free Lights	Program was not operated		
	New Construction	None reported		
	Clean Water Custom	\$787,500	\$0	\$787,500
	CHP	Program was not operated		
	RCx	None reported		
	STEP	\$17,884	\$3,948	\$21,832
	Boiler Tune-Up	\$0	\$31,180	\$31,180
Low Income	AHNC	\$222,107	\$37,582	\$259,689
	Residential Retrofit	\$1,260,801	\$374,314	\$1,635,115
	Public Housing	\$1,033,501	\$582,113	\$1,615,614

Sector	Program	Electric Expenditures	Gas Expenditures	Total Expenditures
Market Transformation	K-12	\$5,151	\$0	\$5,151
	BOC	\$28,091	\$6,199	\$34,290
	SEDAC	None reported		
	Codes	\$40,399	\$8,870	\$49,270
	Other MT	\$43,177	\$9,558	\$52,735
Portfolio Non-Program Costs		\$927,785	\$232,180	\$1,159,965
<b>Total</b>		<b>\$5,312,109</b>	<b>\$2,111,019</b>	<b>\$7,423,129</b>
<b>Budget</b>		<b>\$15,137,763</b>	<b>\$3,915,655</b>	<b>\$19,053,418</b>
<b>% of Budget</b>		<b>35%</b>	<b>54%</b>	<b>39%</b>

Source: Opinion Dynamics analysis of DCEO materials and program tracking data

### 5.3 EPY7/GPY4 Result Summary

Table 11 presents DCEO portfolio electric savings in AIC territory for EPY7.

Table 11. DCEO EPY7 Portfolio Savings

Sector	Program	Electric Savings (kWh)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
Public Sector	Standard	11,446,308	129%	14,810,451	92%	13,618,320
	Custom	13,485,862	82%	11,073,223	84%	9,252,437
	EE Agg. Standard	Program was not operated				
	EE Agg. Custom	Program was not operated				
	Free Lights	Program was not operated				
	New Construction	4,944,843	100%	4,944,843	59%	2,898,452
	Clean Water Custom	Program was not operated				
	CHP	Program was not operated				
	RCx	1,313,602	87%	1,144,282	102%	1,171,070
	STEP	1,042,030	77%	806,436	97%	778,644
	Boiler Tune-Up	Gas-only program				
Low Income	AHNC	1,811,900	52%	950,161	100%	950,161
	Residential Retrofit	Not available	N/A	3,439,050	100%	3,439,050
	Public Housing	575,900	97%	559,223	100%	559,223
Market Transformation	K-12	51,359	84%	43,117	84%	36,032
	BOC	Not available	N/A	Not available	N/A <sup>a</sup>	521,991
	SEDAC	Not available	N/A	Not available	N/A <sup>a</sup>	271,225
	Codes	Program does not produce energy savings				

Sector	Program	Electric Savings (kWh)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
<b>Total</b>		<b>33,496,606</b>				
<b>ICC Goal</b>		<b>38,350,983</b>				
<b>% of ICC Goal Achieved</b>		<b>87%</b>				

Source: Final EPY7 ADM program evaluations.

<sup>a</sup> In this case, evaluation of the program produces what should be considered as net savings. Therefore, we list "N/A" as the NTGR, but in practice, ex post net savings equal what is reported as "ex post gross" savings.

Table 12 presents DCEO portfolio gas savings in AIC territory for GPY4.

Table 12. DCEO GPY4 Savings

Sector	Program	Gas Savings (therms)				
		Ex Ante Gross	Gross RR	Ex Post Gross	NTGR	Ex Post Net
Public Sector	Standard	30,455	101%	30,810	64%	19,787
	Custom	239,768	75%	180,621	84%	151,788
	EE Agg. Standard	Program was not operated				
	EE Agg. Custom	Program was not operated				
	Free Lights	Program was not operated				
	New Construction	27,252	115%	31,328	19%	5,803
	Clean Water Custom	Program was not operated				
	CHP	Program was not operated				
	RCx	97,678	104%	101,973	97%	99,109
	STEP	44,169	86%	38,070	87%	33,301
Boiler Tune-Up	272,348	93%	253,782	87%	221,279	
Low Income	AHNC	7,176	55%	3,982	100%	3,982
	Residential Retrofit	Not available	N/A	250,297	100%	250,297
	Public Housing	36,062	101%	36,282	100%	36,282
Market Transformation	K-12	Electric-only program				
	BOC	None reported				
	SEDAC	Not available	N/A	Not available	N/A <sup>a</sup>	3,186
	Codes	Program does not produce energy savings				
<b>Total</b>		<b>824,815</b>				
<b>ICC Goal</b>		<b>872,983</b>				
<b>% of ICC Goal Achieved</b>		<b>94%</b>				

Source: Final EPY7 ADM program evaluations.



Table 13 presents DCEO portfolio expenditures in AIC territory at the program level for EPY7/GPY4.

Table 13. DCEO EPY7/GPY4 Portfolio Expenditures and Budget

Sector	Program	Electric Expenditures	Gas Expenditures	Total Expenditures
Public Sector	Standard	\$2,498,376	\$178,167	\$2,676,543
	Custom	\$1,901,767	\$603,441	\$2,505,208
	EE Agg. Standard	Program was not operated		
	EE Agg. Custom	Program was not operated		
	Free Lights	Program was not operated		
	New Construction	\$651,703	\$100,823	\$752,526
	Clean Water Custom	Program was not operated		
	CHP	Program was not operated		
	RCx	\$584,815	\$163,604	\$748,419
	STEP	\$270,379	\$24,398	\$294,777
	Boiler Tune-Up	\$0	\$329,653	\$329,653
Low Income	AHNC	\$683,891	\$105,001	\$788,892
	Residential Retrofit	\$1,856,659	\$663,175	\$2,519,834
	Public Housing	\$759,202	\$286,190	\$1,045,392
Market Transformation	K-12	\$105,852	N/A	\$105,852
	BOC	\$61,674	\$13,531	\$75,205
	SEDAC	\$580,384	\$138,466	\$718,850
	Codes	Unavailable		
Portfolio Non-Program Costs		\$1,557,705	\$465,892	\$2,023,597
<b>Total</b>		<b>\$11,512,406</b>	<b>\$3,072,339</b>	<b>\$14,584,748</b>
<b>Budget</b>		<b>\$14,896,734</b>	<b>\$3,885,540</b>	<b>\$18,782,274</b>
<b>% of Budget</b>		<b>77%</b>	<b>79%</b>	<b>78%</b>

Source: All information except budget sourced from EPY7/GPY4 Cost Effectiveness Summary Report. Prepared by ADM. [http://ilsagfiles.org/SAG\\_files/Evaluation\\_Documents/TRC\\_Reports/DCEO/Department\\_of\\_Commerce\\_Cost\\_Effectiveness\\_Report\\_EPY7-GPY4\\_Final\\_Report.pdf](http://ilsagfiles.org/SAG_files/Evaluation_Documents/TRC_Reports/DCEO/Department_of_Commerce_Cost_Effectiveness_Report_EPY7-GPY4_Final_Report.pdf)

Budget sourced from DCEO EEPS Plan 2014-17 Ex 1.2: <https://www.icc.illinois.gov/downloads/public/edocket/370615.pdf>

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