

ComEd PY7-PY9 Summary Impact Evaluation Report

Energy Efficiency / Demand Response Plan: Plan Year 7 to 9 (PY7-PY9) June 1, 2014 – December 31, 2017

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1. INTRODUCTION

This report presents the results of the impact evaluation of ComEd's third plan (Plan 3)¹ slate of energy efficiency programs offered under the Energy Efficiency Portfolio Standard (EEPS), and the Illinois Power Agency (IPA) umbrella. It presents a summary of the energy and demand impacts for the portfolio and each program and some detail on cost effectiveness. The report fulfills the Illinois Public Utilities Act (PUA) requirement for a review of the 3-year results of the broader net program impacts for Program Year 7 (PY7) starting in June 1, 2014 through Program Year 9 (PY9) which ended in December 31, 2017.²

In Plan 3, ComEd's portfolio included programs implemented under the EEPS and IPA umbrella, pilot programs, and public sector and income eligible programs that ComEd took over from the Department of Commerce and Economic Opportunity (DCEO) portfolio on June 1, 2017.³ Overall, the ComEd Plan 3 portfolio implemented 66 programs, which included 24 IPA and 42 EEPS (including 12 DCEO transition period programs), as listed in Table 1-1. The list contains 28 programs in the residential sector (including 4 income eligible programs) and 38 programs in the business sector (including 8 public sector programs).⁴ This report presents a summary of the energy and demand savings from programs implemented for which final impact evaluation reports with realized savings have been submitted to ComEd. This included 22 PY7 programs, 32 PY8 programs, and 56 PY9 programs.⁵

The AirCare Plus, Lighting Discounts, Small Business and Streetlighting Programs had savings counting toward both EEPS and IPA targets. Those programs appear twice in the program-level results shown in Table 3-1 but savings were not double counted. The Lighting Discounts Program and Instant Discounts Program both had carryover savings from measures sold or incented in prior years that were installed in PY7, PY8 and PY9. The PY9 Instant Discounts Program carryover savings from PY7 were attributed to the EEPS portfolio. The PY9 Lighting Discounts Program carryover savings from PY7 were attributed to the EEPS portfolio, and the carryover savings from PY8 were attributed to the IPA portfolio.

¹ The triennial energy efficiency and demand response plan filings required by Section 8-103 of Illinois Public Utilities Act ("Act"), 220 ILCS 5/8-103, generally referred to herein as "Plan" or "Plan 3".

² PY7 started in June 1, 2014 and ended in May 30, 2015. PY8 started in June 1, 2015 and ended in May 30, 2016. PY9 original 12-month program started in June 1, 2016 and got extended 7 months more (transition period) and ended in December 31, 2017 (PY9+).

³ Public Sector and Income Eligible programs were implemented only in PY9 during the transition period between June 1, 2017 and December 31, 2017.

⁴ Programs with carryover savings are counted only once. Programs that had both an IPA component and an EEPs component were counted separately.

⁵ Some programs had no savings in specific years. These programs were: Meter Genius, Great Energy Stewards, Root3 Energy Data Model, Low-Income Multi-family (UIC-ERC), and Total Connected Savings Wi-Fi Thermostat Optimization. These programs are shown in Table 1-1 but are excluded from subsequent tables containing program evaluation results.



Table 1-1. ComEd PY7-PY9 Energy Efficiency Programs

Sector	Portfolio	Program PY7	Program PY8	Program PY9
lusiness	5522	PY7	PY8	PY9
lusiness	EEPS		AirCare Plus	AirCare Plus
usiness	EEPS	New Construction	New Construction	C&I New Construction*
usiness	EEPS	Custom	Business Custom	Custom*
usiness	EEPS	Data Centers	Data Centers	Data Center Efficiency*
usiness	EEPS	Industrial Systems	Industrial Systems	Industrial Systems Optimization*
usiness	EEPS	Business Instant Lighting Discount	Business Instant Lighting Discounts	Instant Discounts*
usiness	EEPS	3 0	5 5	Operational Savings*
usiness	EEPS	Retro-Commissioning	Retro-Commissioning	Retrocommissioning (RCx)*
usiness	EEPS	Standard	Business Standard	Standard*
usiness	EEPS	Standard	Dusiness Standard	
		Carell Duringer Fragment Cardinan		Strategic Energy Management (SEM)
usiness	EEPS	Small Business Energy Savings		
usiness	EEPS	LED Street Lighting		
usiness	IPA			Agriculture Energy Efficiency
usiness	IPA		AirCare Plus	AirCare Plus
usiness	IPA			CLEAResultLLLC
usiness	IPA		CLEAResult Schools Direct Install	CLEAResult Schools DI
usiness	IPA			
				Elevate Energy Assisted & Senior Housing
usiness	IPA			Energy Advisor MBCx
usiness	IPA		LED Street Lighting	LED Street Lighting
usiness	IPA		Matrix Demand Control Ventilation	Matrix DCV
isiness	IPA		Matrix School Direct Install	Matrix K-12 Private Schools DI
usiness	IPA		Weidt Group New Construction	New Construction Small Buildings
usiness	IPA			Rural Small Business EE Kits
usiness	IPA			SEDAC Enhanced Building Optimization
usiness	IPA	Small Business Energy Savings (IPA)	Small Business Energy Savings	Small Business Energy Savings
usiness	IPA			Small Commercial Lit Signage
ilot Business	EEPS		Agentis Business Energy Analyzer Pilot	Business Energy Analyzer*
ilot Business	EEPS		Strategic Energy Management Pilot	
ilot Business	EEPS			Multi-family Common Area Pilot*
ilot Business	EEPS		Root3 Pilot	Root3 Energy Data Model
	EEPS	51/7		
esidential		PY7	PY8	PY9
esidential	EEPS	Home Energy Rebates	Appliance Rebates	Appliance Rebates*
esidential	EEPS	Elementary Energy Education	Elementary Energy Education	Elementary Education Kits*
esidential	EEPS	Fridge and Freeze	Residential Fridge and Freezer	Fridge Freezer Recycling*
esidential	EEPS		HVAC and Weatherization	Heating, Cooling & Weatherization Rebates (HVAC)*
esidential	EEPS		HVAC and Weatherization	Heating, Cooling & Weatherization Rebates (Wx)*
esidential	EEPS	Home Energy Assessments	Home Energy Assessments	Home Energy Assessments*
esidential	EEPS	Multifamily - Tenant Area	Multi-Family Assessment	Multi-Family Comprehensive EE*
esidential	EEPS	Residential New Construction	Residential New Construction	Residential New Construction*
esidential	EEPS			Total Connected Savings Wi-Fi Thermostat Optimization
esidential	EEPS	Energy Star Lighting		
esidential	IPA			CLEAResult Community-based CFL Distribution
esidential	IPA	Accelerate CUB Energy Saver	CUB Energy Saver	CUB Energy Saver
esidential	IPA	Elevate Electric Multifamily	Elevate Electric Multifamily	Elevate Energy MF All Electric
	IPA		· · · · · · · · · · · · · · · · · · ·	
esidential		Home Energy Reports	Home Energy Report	Home Energy Reports
esidential	IPA		Residential Lighting Discounts	Lighting Discounts
esidential	IPA			Low-income Kits (UIC ERC)
esidential	IPA		National Theatre for Children	NTC Gas & Electric Water Heater Kits
esidential	IPA	Great Energy Stewards	Great Energy Stewards	Shelton Solutions Great Energy Stewards
esidential	IPA		<u>,</u>	Low-Income Multi-family (UIC-ERC)
lot Residential	EEPS			Bidgely*
lot Residential	EEPS			Nest Seasonal Savings (Cooling & Heating)*
lot Residential	EEPS		Meter Genius Pilot	
lot Residential	EEPS	Energy Check		
lot Residential	IPA		C3 Home Energy Reports	
ublic Sector (DCEO Bridge		PY7	PY8	PY9
ublic Sector	EEPS			C&I New Construction
ublic Sector	EEPS			Custom
ublic Sector	EEPS			Free Lights
Iblic Sector	EEPS			LED Street Lighting
ublic Sector	EEPS			PHA Efficient Living
ublic Sector	EEPS			Retrocommissioning
ublic Sector	EEPS			Savings Through Efficient Products (STEP)
ublic Sector	EEPS			Standard
		DV7	DV0	
come Eligible (DCEO Bridg		PY7	PY8	PY9
come Eligible	EEPS			Affordable Housing New Construction
come Eligible	EEPS			Illinois Home Weatherization Assistance Program (IHWAP)
come Eligible	EEPS			Residential Retrofit Energy Savers Multi-Family
come Eligible	EEPS			Residential Retrofit Single Family Retrofits (CBA)
		PY7	PY8	PY9
arryover Savings	5500			
arryover Savings	EEPS	Business Instant Lighting Discount	Business Instant Lighting Discounts	Instant Discounts
arryover Savings	EEPS	Energy Star Lighting (EEPS)	Residential Lighting Discounts (EEPS)	Lighting Discounts (EEPS)
arryover Savings	IPA	Energy Star Lighting (IPA)	Residential Lighting Discounts (IPA)	Lighting Discounts (IPA)

* Programs with transition period savings. Source: ComEd tracking data and Navigant evaluation reports.

2. PORTFOLIO SAVINGS

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Table 2-1 compares the ComEd EEPS Modified MWh goal⁶ and the ComEd EEPS savings over the portfolio cycle.

Table 2-1. Comparing EEPS Annual Electric Net Goals to Actual Achieved

Energy Savings Category	PY7 (MWh)	PY8 (MWh)	PY9 Original 12 Months (MWh)	PY9 Transition Months (MWh)	Total PY9+ (MWh)*	Overall Total (MWh)
Statutory MWh Goal†	1,605,201	1,803,142	1,811,811	NA	NA	5,220,154
ComEd Modified Goals (MWh)‡	648,029	541,983	517,369	270,260	787,629	1,977,641
Verified Net Savings§	809,878	666,514	658,796	428,281	1,087,076	2,563,468
TRC Test†§	2.87	2.33	NA	NA	1.46	2.02
Proposed Goal Achieved (%)	125%	123%	127%	158%	138%	130%

Note: This table shows savings and goals from only EEPS programs. "NA" means value are not provided or derived.

* PY9+ is the sum of PY9 original 12 months program savings and transition period savings.

† Statutory MWh Goal is sourced from 220 ILCS 5/8-103 and Docket No. 13-0495, ComEd Ex 2.1.

‡ ComEd Modified MWh Goal is sourced from Docket No. 13-0495, EE&DR Plan compliance filed (Feb.27.2014, Docket No. 17-0212). Joint filling (April 27, 2017)

§ The verified net savings are sourced from the annual final summary reports. The transition period net MWh are derived from PY9 Transition Period WAML Memo dated 8/30/2018 (program verified gross MWh savings multiplied by program NTG values). The PY9 original 12 months MWh savings is derived from the difference in PY9 Plus program level MWh and the transition period MWh savings. Program level details are provided in Table 3-1.

[†]§Total Resource Cost (TRC) values are sourced from PY7-PY9 TRC Reports TRC reports submitted to ComEd on June 26, 2019. Source: ComEd tracking data, Navigant teamanalysis, and Plan 3.

The findings from Table 2-1 show that ComEd exceeded its proposed EEPS MWh goals by 125% for PY7, 123% for PY8, 127% for PY9 (original period), and 138% PY9 plus transition period. ComEd achieved 158% of the MWh goal set for the Transition Period. Overall, ComEd achieved 130% of goal in Plan 3, which translates to 585,827 MWh more than the proposed goal.

Table 2-2 through Table 2-4 summarize the incremental energy and demand savings the ComEd portfolio achieved in PY7 through PY9, combining savings from EEPS, IPA, and DCEO transition programs.

Table 2-2. Total Annual Energy Savings

Energy Savings Category	PY7 (MWh)	PY8 (MWh)	PY9 Original 12 Months (MWh)	PY9 Transition Months (MWh)*	Total PY9+ (MWh)	Overall Total (MWh)
Ex Ante Gross Savings	1,534,824	1,562,353	2,316,271	45,202	2,361,473	5,458,650
Portfolio Gross Realization Rate	0.98	1.12	0.97	0.93	0.97	1.01
Verified Gross Savings	1,497,299	1,751,675	2,241,572	42,225	2,283,796	5,532,770
Portfolio Net-to-Gross Ratio (NTG)	0.75	0.77	1.04	0.84	1.04	0.88
Verified Net Savings	1,122,657	1,352,339	2,334,999	35,482	2,370,481	4,845,477

Note: The totals in this table may vary slightly from the totals in other tables and the totals summed across the individual program reports due to rounding issues. Some programs do not report ex ante gross savings (e.g., the Home Energy Reports program), so the evaluation did not calculate verified gross savings. The ex ante gross shown here is as reported by the programs and verified gross is only for those reporting ex ante gross. For the purposes of calculating a portfolio NTG ratio, Navigant used only those programs reporting ex ante gross. Based on the same issue, the ratio of the net and verified gross savings shown in the table will not present an accurate ratio for the portfolio.

* PY7 and PY8 savings include EEPS and IPA and exclude DCEO. The PY9+ program includes DCEO transition savings. Source: ComEd tracking data and Navigant teamanalysis.

⁶ The triennial energy efficiency and demand response plan filings required by Section 8-103 of Illinois Public Utilities Act ("Act"), 220 ILCS 5/8-103, generally referred to herein as "Plan" or "Plan 3".



Table 2-3. Total Annual Demand Savings

Demand Savings Category	PY7 (MW)	PY8 (MW)	PY9 Original 12 Months (MW)	PY9 Transition Months (MW)*	Total PY9+ (MW)	Overall Total (MW)
Ex Ante Gross Savings	NA*	NA	98	3.03	101	101
Portfolio Gross Realization Rate	NA	NA	12.34	3.52	12.08	12.08
Verified Gross Savings	NA	NA	1,215	10.68	1,225	1,225
Portfolio Net-to-Gross Ratio (NTG)	NA	NA	0.68	0.90	0.68	0.68
Verified Net Savings	NA	NA	829	9.59	839	839

Note: MW Demand savings are equivalent to the reduction in aggregate non-coincident kW in PY7-PY9.

* PY7 and PY8 savings include EEPS and IPA and exclude DCEO. The PY9 program includes DCEO transition savings.

Source: ComEd tracking data and Navigant teamanalysis.

Table 2-4. Total Annual Peak Demand Savings

Peak Demand Savings Category	PY7 (MW)	PY8 (MW)	PY9 Original 12 Months (MW)	PY9 Transition Months (MW)*	Total PY9+ (MW)	Overall Total (MW)
Ex Ante Gross Savings	80	62	176	1.76	178	320.39
Portfolio Gross Realization Rate	2.46	3.18	1.69	3.12	1.71	7.35
Verified Gross Savings	197	198	298	5.48	304	698.97
Portfolio Net-to-Gross Ratio (NTG)	0.72	0.75	0.75	0.96	0.75	2.22
Verified Net Savings	141	148	223	5.26	229	519

Note: The MW Peak Demand are aggregate non-coincidence kW savings occurring at coincident Summer Peak period, defined as 1:00-5:00 PM Central Prevailing Time on non-holiday weekdays, June through August.

* PY7 and PY8 savings include EEPS and IPA and exclude DCEO. The PY9 program includes DCEO transition savings.

Source: ComEd tracking data and Navigant teamanalysis.

Table 2-5 summarizes savings from the EEPS, IPA and DCEO transition period portfolios. In Plan 3, ComEd's energy efficiency portfolio achieved a total of 4,845,477 verified net MWh savings, with the EEPS portion achieving 2,563,468 verified net MWh, the IPA portion achieving 2,246,527 verified net MWh, and the DCEO transition period programs achieving 35,482 verified net MWh. The total savings included 4,625,705 net MWh from funded measures and 219,772 net MWh savings from previously funded lighting measures, or carryover, funded in PY7 or PY8 through the Lighting Discounts Program and Instant Discounts Program and expected to be installed by PY9. Of the 219,772 MWh in total carryover savings, 189,395 net MWh was attributable to EEPS and 30,377 net MWh was attributable to IPA.

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Savings Type	Portfolio	Verified Net Savings PY7	Verified Net Savings PY8	Verified Net Savings PY9	Verified Net Savings Total
Energy (MWh)	EEPS	809,878	666,514	1,087,076	2,563,468
Energy (MWh)	IPA	312,779	685,825	1,247,923	2,246,527
Energy (MWh)	DCEO Transition	-	-	35,482	35,482
Energy (MWh)	Total	1,122,657	1,352,339	2,370,481	4,845,477
Demand (MW)	EEPS	-	-	261.8	261.8
Demand (MW)	IPA	-	-	567.2	567.2
Demand (MW)	DCEO Transition	-	-	9.6	9.6
Demand (MW)	Total			838.6	838.6
Peak Demand (MW)	EEPS	124.5	91.7	124.5	340.6
Peak Demand (MW)	IPA	17.0	58.8	98.9	174.7
Peak Demand (MW)	DCEO Transition	-	-	5.3	5.3
Peak Demand (MW)	Total	141.5	148.4	228.7	518.6

Table 2-5. Total Annual Savings by Portfolio

Note: MW Demand savings are equivalent to the aggregate non-coincident reduction in kW in PY7-PY9. The Peak Demand are kW savings occurring at coincident Summer Peak period, defined as 1:00-5:00 PM Central Prevailing Time on non-holiday weekdays, June through August. Savings may be rounded to the nearest MWh or MW, so direct addition of numbers may produce slight discrepancy. Source: ComEd tracking data and Navigant teamanalysis.

Overall, the IPA programs realized 46 percent of the portfolio savings and the EEPS programs had 53 percent while one percent came from DCEO transition period programs. The EEPS Business programs contributed 41 percent of the total savings, followed by IPA Residential programs at 34 percent (see Figure 2-1). Figure 2-2 disaggregates the annual savings by portfolio category. Further detail on the savings by program category is shown in subsequent sections.



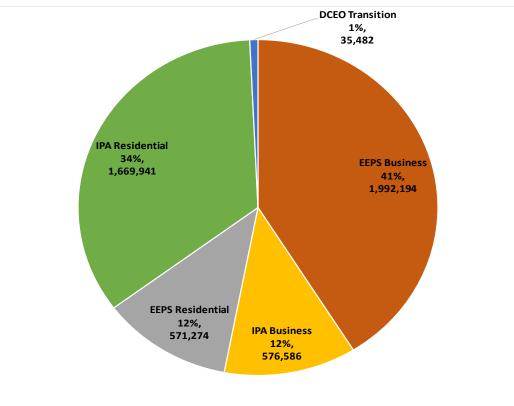
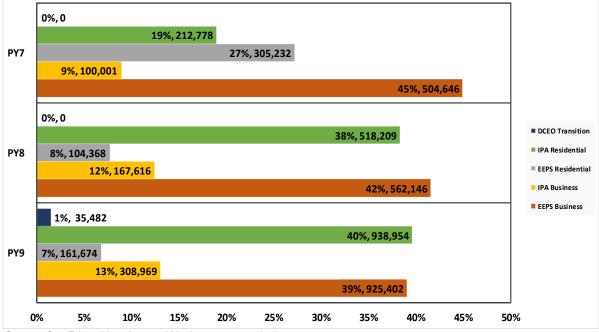


Figure 2-1. Energy (MWh) Savings by Portfolio Category (3-Year Total)

Figure 2-2. Energy Savings (MWh) by Portfolio Category (Annual Breakdown)



Source: ComEd tracking data and Navigantteamanalysis.

Source: ComEd tracking data and Navigant teamanalysis.

3. SAVINGS BY PROGRAM

The savings by program are shown in Table 3-1 and Table 3-2. Note that the AirCare Plus Program, Lighting Discounts, Small Business and Streetlighting Programs had savings counted toward both EEPS and IPA targets, and therefore appear twice in the tables, but savings were not double counted. The Lighting Discounts Program had carryover savings counted toward both EEPS and IPA targets, while the Instant Discounts Program had carryover savings counted toward the EEPS target.



Table 3-1. Annual Energy Savings by Program

Portfolio	Sector	Program	PY7 Verified Net	PY8 Verified Net	PY9 Verified Net	Total Verified Net
			Savings (MWh)	Savings (MWh)	Savings (MWh)	Savings (MWh)
EPS	Business	AirCare Plus	10	2,507	12,734	15,241
EPS	Business	C&I New Construction	16,536	34,642	49,511	100,689
EPS	Business	Custom	18,788	18,173	24,213	61,17
EPS	Business	Data Center Efficiency	6,599	11,492	30,152	48,24
EPS	Business	Industrial Systems Optimization	10,261	29,576	26,019	65,85
EPS	Business	Instant Discounts	155,239	191,523	171,805	518,56
EPS	Business	Operational Savings	04 700	00.055	3,922	3,92
EPS	Business	Retrocommissioning	21,703	23,955	33,398	79,056
EPS	Business	Standard	180,799	164,471	265,810	611,080
EPS	Business	Strategic Energy Management (SEM)			15,978	15,978
EPS	Business	Small Business Energy Savings	73,704			73,704
EPS	Business	LED Street Lighting	460			460
EPS	Business	Subtotal	484,089	476,339	633,542	1,593,970
EPS	Pilot Business	Business Energy Analyzer		59,217	276,462	335,679
EPS	Pilot Business	Multi-family Common Area Pilot		100	4,391	4,391
EPS	Pilot Business	Root3 Energy Data Model		103		103
EPS	Pilot Business	Strategic Energy Management Pilot		6,800	200.052	6,800
EPS EPS	Pilot Business	Subtotal Appliance Rebates	4,697	66,120 4,446	280,853 40,743	346,973 49,886
	Residential					
EPS	Residential	Elementary Education Kits	1,537	1,700	4,377	7,614
EPS	Residential	Fridge Freezer Recycling	18,885	14,221	34,336	67,442
EPS	Residential	Heating, Cooling & Weatherization Rebates (HVAC)*		18,743	19,421	38,164
EPS	Residential	Heating, Cooling & Weatherization Rebates (Wx)			1,425	1,425
EPS	Residential	Home Energy Assessments	4,283	7,316	25,223	36,822
EPS	Residential	Multi-Family Comprehensive EE	3,963	3,123	5,491	12,577
EPS	Residential	Residential New Construction	518	547	943	2,008
EPS	Residential	Lighting Discounts	213,377			213,377
EPS	Residential	Subtotal	247,260	50,096	131,958	429,314
EPS	Pilot Residential	Bidgely			100	100
EPS	Pilot Residential	Nest Seasonal Savings			3,522	3,522
EPS	Pilot Residential	Subtotal			3,621	3,621
EPS	EEPS Carryover	Instant Discounts	20,557	19,687	11,007	51,251
EPS	EEPS Carryover	Lighting Discounts	57,776	54,272	26,095	138,143
EPS	EEPS Carryover	Subtotal	78,333	73,959	37,103	189,395
EPS	EEPS Pilot	Energy Check	196			196
EPS	EEPS Pilot	Subtotal	196			196
EPS	IDA D. J. J.	Portfolio Total	809,878	666,514	1,087,076	2,563,468
PA	IPA Business	Agriculture Energy Efficiency			630	630
PA	IPA Business	AirCare Plus		6,910	10,535	17,445
PA	IPA Business	CLEAResult LLLC			8,094	8,094
PA	IPA Business	CLEAResult Schools DI		773	1,285	2,058
PA	IPA Business	Elevate Energy Assisted & Senior Housing			1,222	1,222
PA	IPA Business	Energy Advisor MBCx			2,021	2,021
PA	IPA Business	LED Street Lighting		5,978	4,497	10,475
PA	IPA Business	Matrix DCV		8	737	745
PA	IPA Business	Matrix K-12 Private Schools DI		181	761	942
PA	IPA Business	New Construction Small Buildings		42	856	898
PA	IPA Business	Rural Small Business EE Kits			3,251	3,251
PA	IPA Business	SEDAC Enhanced Building Optimization			2,119	2,119
PA	IPA Business	Small Business	100,001	153,724	256,465	510,190
PA	IPA Business	Small Commercial Lit Signage			16,496	16,496
PA	IPA Business	Subtotal	100,001	167,616	308,969	576,586
PA	IPA Residential	CLEAResult Community-based CFL Distribution			21,383	21,383
PA	IPA Residential	CUB Energy Saver	1,224	2,169	2,191	5,584
PA	IPA Residential	Elevate Energy MF All Electric	908	1,784	1,127	3,819
PA	IPA Residential	Home Energy Reports	205,278	252,036	442,029	899,343
PA	IPA Residential	Lighting Discounts		254,854	443,105	697,959
PA	IPA Residential	Low-income Kits (UIC ERC)			5,581	5,581
PA	IPA Residential	NTC Gas & Electric Water Heater Kits		1,247	2,232	3,479
PA	IPA Residential	Shelton Solutions Great Energy Stewards		-	530	530
A	IPA Residential	Subtotal	207,410	512,090	918,179	1,637,679
PA	IPA Carryover	Lighting Discounts	5,368	4,234	20,775	30,377
A	IPA Carryover	Subtotal	5,368	4,234	20,775	30,377
PA	IPA Pilot	C3 Home Energy Reports		1,885		1,885
PA .	IPA Pilot	Subtotal	•	1,885		1,885
A		Portfolio Total	312,779	685,825	1,247,922	2,246,526
CEO Transition	Income Eligible	Affordable Housing New Construction			40	40
CEO Transition	Income Eligible	Illinois Home Weatherization Assistance Program (IHWAP)			802	802
CEO Transition	Income Eligible	Residential Retrofit Energy Savers Multi-Family			1,006	1,006
CEO Transition	Income Eligible	Residential Retrofit: Single Family Retrofits (CBA)			614	614
CEO Transition	Income Eligible	Subtotal			2,461	2,461
CEO Transition	Public Sector	C&I New Construction			1,887	1,887
CEO Transition	Public Sector	Custom			371	371
CEO Transition	Public Sector	Free Lights			4,596	4,596
CEO Transition	Public Sector	LED Street Lighting			12,955	12,955
CEO Transition	Public Sector	PHA Efficient Living			435	435
CEO Transition	Public Sector	Retrocommissioning			191	191
CEO Transition	Public Sector	Savings Through Efficient Products (STEP)			1,763	1,763
CEO Transition	Public Sector	Standard			10,823	10,823
CEO Transition	Public Sector	Subtotal Portfolio Total			33,021	33,021
CEO Transition		Portfolio Total Grand Total	1,122,657	1,352,339	35,482 2,370,481	35,482 4,845,477
	All					

Note: The Small Business, Lighting Discount, LED Streetlighting and SEM had both EEPS and IPA.

* Heating and Cooling Rebates included both HVAC and weatherization savings in PY8 but split in PY9. Source: ComEd tracking data and Navigant teamanalysis. Table 3-2 shows total summer peak demand savings by program. Very few programs reported total demand savings. The total peak demand reduction was 519 MW for the 3-year period.

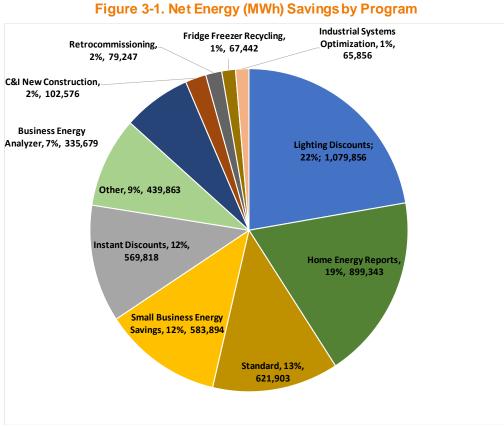
Portfolio	Sector	Program	PY7 Verified Net	PY8 Verified Net	PY9 Verified Net	Total Verified Ne
EEPS	Business	AirCare Plus	Savings (MW)	Savings (MW) 0.31	Savings (MW) 1.71	Savings (MW 2.02
EEPS	Business	C&I New Construction	3.37	6.87	8.58	18.82
EEPS	Business	Custom	4.74	2.45	3.26	10.45
EPS	Business	Data Center Efficiency	0.75	1.00	2.86	4.61
EEPS	Business	Industrial Systems Optimization	1.50	4.09	3.37	8.96
EEPS	Business	Instant Discounts	34.50	39.00	34.07	107.57
EEPS	Business	Operational Savings				-
EEPS	Business	Retrocommissioning	2.25	0.48	2.20	4.93
EEPS	Business	Standard	22.31	18.72	30.74	71.77
EEPS	Business	Strategic Energy Management (SEM)				-
EEPS	Business	Small Business Energy Savings	13.15			13.15
EEPS	Business	LED Street Lighting	0.08			0.08
EEPS	Business	Subtotal	82.65	72.92	86.78	242.35
EEPS	Pilot Business	Business Energy Analyzer				-
EEPS	Pilot Business	Multi-family Common Area Pilot			0.49	0.49
EEPS	Pilot Business	Root3 Energy Data Model				-
EPS	Pilot Business	Subtotal	0.00	-	0.49	0.49
EEPS	Residential	Appliance Rebates	3.00	0.76	9.67	13.43
EEPS	Residential	Elementary Education Kits	0.16	0.18	0.44	0.78
EEPS	Residential	Fridge Freezer Recycling	2.38	1.42	4.64	8.44
EEPS	Residential	Heating, Cooling & Weatherization Rebates (HVAC)*		4.75	7.57	12.32
EEPS	Residential	Heating, Cooling & Weatherization Rebates (Wx)			0.58	0.58
EEPS	Residential	Home Energy Assessments	0.44	0.75	2.98	4.17
EEPS	Residential	Multi-Family Comprehensive EE	0.44	0.31	0.54	1.29
EEPS	Residential	Residential New Construction	0.28	0.28	0.46	1.02
EEPS	Residential	Lighting Discounts	24.50			24.50
EPS	Residential	Subtotal	31.20	8.45	26.88	66.53
EEPS	Pilot Residential	Bidgely				-
EEPS	Pilot Residential	Nest Seasonal Savings			5.25	5.25
EPS	Pilot Residential	Subtotal			5.25	5.25
EEPS	EEPS Carryover	Instant Discounts	4.20	4.00	2.19	10.39
EEPS	EEPS Carryover	Lighting Discounts	6.40	6.30	2.90	15.60
EPS	EEPS Carryover	Subtotal	10.60	10.30	5.09	25.99
EEPS	EEPS Pilot	Energy Check				
EPS	EEPS Pilot	Subtotal	-			-
EPS		Portfolio Total	124.45	91.67	124.49	340.61
IPA	IPA Business	Agriculture Energy Efficiency			0.10	0.10
IPA	IPA Business	AirCare Plus		0.06	1.90	1.96
IPA	IPA Business	CLEAResult LLLC			1.59	1.59
IPA	IPA Business	CLEAResult Schools DI		0.19	0.25	0.44
IPA	IPA Business	Elevate Energy Assisted & Senior Housing			0.13	0.13
IPA	IPA Business	Energy Advisor MBCx				-
IPA	IPA Business	LED Street Lighting		0.99	0.71	1.70
IPA	IPA Business	Matrix DCV				-
IPA	IPA Business	Matrix K-12 Private Schools DI		0.04	0.20	0.24
IPA	IPA Business	New Construction Small Buildings		0.01	0.10	0.11
IPA	IPA Business	Rural Small Business EE Kits			0.41	0.41
IPA	IPA Business	SEDAC Enhanced Building Optimization			0.30	0.30
IPA	IPA Business	Small Business	16.22	23.68	35.55	75.45
IPA	IPA Business	Small Commercial Lit Signage				-
PA	IPA Business	Subtotal	16.22	24.97	41.22	82.41
IPA	IPA Residential	CLEAResult Community-based CFL Distribution			2.14	2.14
PA	IPA Residential	Elevate Energy MF All Electric	0.12	0.11	0.12	0.35
PA	IPA Residential	CUB Energy Saver				-
PA	IPA Residential	Home Energy Reports				-
PA	IPA Residential	Lighting Discounts		31.00	52.15	83.15
PA	IPA Residential	Low-income Kits (UIC ERC)			0.58	0.58
PA	IPA Residential	NTC Gas & Electric Water Heater Kits		0.20	0.28	0.48
PA	IPA Residential	Shelton Solutions Great Energy Stewards				-
PA	IPA Residential	Subtotal	0.12	31.31	55.27	86.70
PA	IPA Carryover	Lighting Discounts	0.70	0.50	2.42	2.42
PA	IPA Carryover	Subtotal	0.70	0.50	2.42	3.62
PA	IPA Pilot	C3 Home Energy Reports				-
PA	IPA Pilot	Subtotal	<u> </u>	<u> </u>		-
DA		Portfolio Total	17.04	56.78	98.92	172.74
- M	Income Eligible	Affordable Housing New Construction			0.01	0.01
DCEO Transition					0.19	0.19
	Income Eligible	Illinois Home Weatherization Assistance Program (IHWAP)				
OCEO Transition	Income Eligible				0.16	0.1
OCEO Transition OCEO Transition		Illinois Home Weatherization Assistance Program (IHWAP) Residential Retrofit: Energy Savers Multi-Family Residential Retrofit: Single Family Retrofits (CBA)				
DCEO Transition DCEO Transition DCEO Transition	Income Eligible Income Eligible Income Eligible	Residential Retrofit Energy Savers Multi-Family			0.16	0.13
DCEO Transition DCEO Transition DCEO Transition DCEO Transition	Income Eligible Income Eligible Income Eligible	Residential Retrofit: Energy Savers Multi-Family Residential Retrofit: Single Family Retrofits (CBA)			0.16 0.13	0.13
DCEO Transition DCEO Transition DCEO Transition ICEO Transition DCEO Transition	Income Eligible Income Eligible Income Eligible Income Eligible	Residential Retrofit: Energy Savers Multi-Family Residential Retrofit: Single Family Retrofits (CBA) Subtotal			0.16 0.13	0.1 0.4 -
OCEO Transition OCEO Transition OCEO Transition CEO Transition OCEO Transition OCEO Transition	Income Eligible Income Eligible Income Eligible Income Eligible Public Sector Public Sector	Residential Retrofit: Energy Savers Mutii-Family Residential Retrofit: Single Family Retrofits (CBA) Subtotal C&II New Construction Custom			0.16 0.13 0.49 0.06	0.1 0.4 - 0.0
OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition	Income Eligible Income Eligible Income Eligible Income Eligible Public Sector	Residential Retrofit Energy Savers Multi-Family Residential Retrofit Single Family Retrofits (CBA) Subtotal C&I New Construction Custom Free Lights			0.16 0.13 0.49 0.06 0.74	0.1: 0.4: - 0.0: 0.7:
DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition	Income Eligible Income Eligible Income Eligible Income Eligible Public Sector Public Sector Public Sector Public Sector	Residential Retrofit Energy Savers Multi-Family Residential Retrofit Single Family Retrofits (CBA) Subtotal C&I New Construction Custom Free Lights LED Street Lighting			0.16 0.13 0.49 0.06 0.74 2.05	0.1: 0.4: - 0.0: 0.7: 2.0:
DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition	Income Eligible Income Eligible Income Eligible Income Eligible Public Sector Public Sector Public Sector Public Sector Public Sector	Residential Retrofit: Energy Savers Multi-Family Residential Retrofit: Single Family Retrofits (CBA) Stubtotal C&I New Construction Custom Free Lights LED Street Lighting PHA Efficient Living			0.16 0.13 0.49 0.06 0.74 2.05 0.08	0.1 0.4 - 0.0 0.7 2.0 0.0
DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition DEED Transition	Income Eligible Income Eligible Income Eligible Income Eligible Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector	Residential Retrofit Energy Savers Multi-Family Residential Retrofit Single Family Retrofits (CBA) Subtotal C&I New Construction Custom Free Lights LED Street Lighting PHA Efficient Living Retrocommissioning			0.16 0.13 0.49 0.06 0.74 2.05 0.08 0.01	0.1 0.4 - 0.0 0.7 2.0 0.0 0.0 0.0
OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition	Income Eligible Income Eligible Income Eligible Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector	Residential Retrofit Energy Savers Multi-Family Residential Retrofit Single Family Retrofits (CBA) Subtotal C&I New Construction Custom Free Lights LED Street Lighting PHA Efficient Living Retrocommissioning Savings Through Efficient Products (STEP)			0.16 0.13 0.49 0.06 0.74 2.05 0.08 0.01 0.67	0.1 0.4 - 0.0 0.7 2.0 0.0 0.0 0.0 0.0
OCEO Transition OCEO Transition	Income Eligible Income Eligible Income Eligible Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector	Residential Retrofit: Energy Savers Multi-Family Residential Retrofit: Single Family Retrofits (CBA) Subtotal C&I New Construction Cushom Free Lights LED Street Lighting PHA Efficient Living Retrocommissioning Savings Through Efficient Products (STEP) Standard			0.16 0.13 0.49 0.06 0.74 2.05 0.08 0.01 0.67 1.18	0.1: 0.4:
OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition OCEO Transition	Income Eligible Income Eligible Income Eligible Income Eligible Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector Public Sector	Residential Retrofit Energy Savers Multi-Family Residential Retrofit Single Family Retrofits (CBA) Subtotal C&I New Construction Custom Free Lights LED Street Lighting PHA Efficient Living Retrocommissioning Savings Through Efficient Products (STEP)			0.16 0.13 0.49 0.06 0.74 2.05 0.08 0.01 0.67	0.11 0.13 0.43 - - 0.00 0.77 2.03 0.00 0.00 0.00 0.65 1.11 4.77 5.24

Table 3-2. Annual Peak Demand Savings by Program

Note: The Small Business, Lighting Discount, and LED Streetlighting programs had both EEPS and IPA. * Heating and Colling Rebates included both HAVC and weatherization savings in PY8 but split in PY9. *Source: ComEd tracking data and Navigant teamanalysis.*



Figure 3-1 and Figure 3-2 show energy and summer peak demand savings for the programs with highest net savings impact. Seven programs Figure 3-1 account for 84% of the net energy savings (or 4,193,069 MWh), and seven programs in Figure 3-2 account for 87% of the demand reduction or 451 MW.



Source: ComEd tracking data and Navigant teamanalysis.



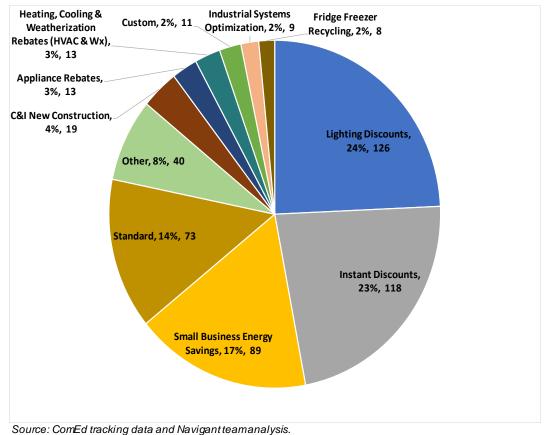


Figure 3-2. Net Peak (MW) Demand Savings by Program

4. LIFETIME SAVINGS AND COST BY PROGRAM

This table provides the weighted average measure life and estimated lifetime savings from the verified first year gross and net savings, and cost information.



Table 4-1. Verified First Year and Lifetime MWh Savings in PY7

				Verified Gross Savings			Verified Net Savings	
Portfolio	Sector	ComEd PY7 Program	Verified Gross Realization Rate (%)	First Year Annual Energy Savings (MWh) - Gross	Lifetime Savings (MWh) - Gross	NTG (%)	First Year Annual Energy Savings (MWh) - Net	Lifetime Savings (MWh) - Net
EEPS	Residential	Residential Energy Star Lighting	100%	350,816	2,069,814	0.61	213,377	1,258,924
EEPS	Residential	Residential Fridge and Freezer	98%	34,011	4,209,792	0.56	18,885	226,620
EEPS	Residential	Multifamily - Tenant Area	101%	4,065	2,104,896	0.98	3,963	23,778
EEPS	Residential	Home Energy Rebates	119%	4,718	6,314,688	0.99	4,697	84,546
EEPS	Residential	Home Energy Assessments	100%	5,354	2,069,814	0.80	4,283	25,270
EEPS	Residential	Residential New Construction	123%	647	7,016,320	0.80	518	10,360
EEPS	Residential	Elementary Energy Education	104%	2,022	2,420,630	0.76	1,537	10,605
EEPS	Residential	Subtotal	100%	401,633	26,205,955	0.62	247,260	1,640,103
EEPS	Business	Business Standard	101%	225,492	4,455,363	0.80	180,799	2,296,147
EEPS	Business	Business Instant Lighting Discount	92%	229,798	2,806,528	0.68	155,239	1,241,912
EEPS	Business	Small Business Energy Savings	97%	77,582	4,806,179	0.95	73,704	1,009,745
EEPS	Business	Business Custom	99%	29,356	4,315,037	0.64	18,788	231,092
EEPS	Business	New Construction	93%	28,027	4,209,792	0.59	16,536	198,432
EEPS	Business	Retro-Commissioning	97%	20,868	1,754,080	1.04	21,703	108,515
EEPS	Business	Industrial Systems	86%	15,089	3,543,242	0.68	10,261	103,636
EEPS	Business	Data Centers	95%	13,749	5,262,240	0.48	6,599	98,985
EEPS	Business	LED Street Lighting	100%	460	4,279,955	1.00	460	5,612
EEPS EEPS EEPS	Business Third Party	Subtotal Energy Check/Pulse EEPS Carryover	96%	640,421 196	35,432,416	0.76 1.00	484,089 196	5,294,077
EEPS	,	Residential Energy Star Lighting	79%	101,847	1,894,406	0.56	57,776	311,990
EEPS		Business Instant Lighting Discount (BILD)	NA	30,501	2,806,528	0.50	20,557	164,456
EEPS	EEPS Carryover		102%	132.348	2,000,320	0.59	78,333	476,446
EEPS	LLFS Callyover	Portfolio Total	98%	1,174,598		0.59	809,878	7,410,626
IPA	ComEd IPA	Small Business Energy Savings IPA	102%	105,265	4,911,424	0.95	100,001	1,400,014
IPA	ComEd IPA	Home Energy Report	95%	205,278	350,816	1.00	205,278	205,278
IPA	ComEd IPA	Residential Lighting IPA Carryover	100%	9,940	1,052,448	0.54	5,368	16,104
IPA	ComEd IPA	Subtotal	10070	320,483	6,314,688	0.97	310,647	1,621,396
IPA	Third Party IPA	Elevate Electric Multifamily	94%	994	4,876,342	0.95	908	12,621
IPA	Third Party IPA	CUB	NA	1,224	350,816	1.00	1,224	1,224
IPA	Third Party IPA	Energy Stewards*	NA	-	350,816	1.00	-	-
IPA	Third Party IPA			2,218	5,577,974	0.96	2,132	13,845
IPA		Portfolio Total	98%	322,701		0.97	312,779	1,635,241
All	All	Total	98%	1,497,299		0.75	1,122,657	9,045,868

* Savings from the Energy Stewards program were evaluated using regression billing analysis. Source: Evaluation Analysis

Table 4-2. Verified First Year and Lifetime MW Savings in PY7

			_	Verified Gross Savings			Verified Net Savings	
Portfolio	Sector	ComEd PY7 Program	Verified Gross Realization Rate (%)	First Year Peak Demand Savings (MW) - Gross	Lifetime Savings (MW) - Gross	NTG (%)	First Year Peak Demand Savings (MW) - Net	Lifetime Savings (MW) - Net
EEPS	Residential	Residential Energy Star Lighting	NA	40.4	238	0.61	24.5	145
EEPS	Residential	Residential Fridge and Freezer	98%	4.3	52	0.55	2.4	29
EEPS	Residential	Multifamily - Tenant Area	100%	0.5	3	0.98	0.4	3
EEPS	Residential	Home Energy Rebates	NA	3.0	54	0.99	3.0	54
EEPS	Residential	Home Energy Assessments	99%	0.5	3	0.81	0.4	3
EEPS	Residential	Residential New Construction	NA	0.4	7	0.80	0.3	6
EEPS	Residential	Elementary Energy Education	106%	0.2	2	0.73	0.2	1
EEPS	Residential	Subtotal	884%	49.3	359	0.63	31.2	239
EEPS	Business	Business Standard	96%	27.8	353	0.80	22.3	283
EEPS	Business	Business Instant Lighting Discount	NA	50.9	407	0.68	34.5	276
EEPS	Business	Small Business Energy Savings	100%	13.8	189	0.95	13.2	180
EEPS	Business	Business Custom	336%	7.4	91	0.64	4.7	58
EEPS	Business	New Construction	86%	5.7	69	0.59	3.4	40
EEPS	Business	Retro-Commissioning	153%	2.2	11	1.04	2.3	11
EEPS	Business	Industrial Systems	97%	2.2	22	0.68	1.5	15
EEPS	Business	Data Centers	93%	1.6	24	0.48	0.8	11
EEPS	Business	LED Street Lighting	NA	0.1	1	1.00	0.1	1
EEPS	Business	Subtotal	196%	111.7	1,167	0.74	82.7	877
EEPS	EEPS Carryover	Residential Energy Star Lighting	NA	11.3	61	0.57	6.4	35
EEPS		Business Instant Lighting Discount (BILD)	NA	6.2	50	0.68	4.2	34
EEPS	EEPS Carryover		NA	17.5	111	0.61	10.6	68
EEPS		Portfolio Total	285%	178.5	1,637	0.70	124.5	1,184
IPA	ComEd IPA	Small Business Energy Savings IPA	98%	17.1	239	0.95	16.2	227
IPA	ComEd IPA	Residential Lighting IPA Carryover	NA	1.3	4	0.54	0.7	2
IPA	ComEd IPA	Subtotal	98%	18.4	243	0.92	16.9	229
IPA	Third Party IPA	Elevate Electric Multifamily	100%	0.1	2	0.92	0.1	2
IPA	Third Party IPA		100%	0.1	2	0.92	0.1	2
IPA		Portfolio Total	106%	18.5	245	0.92	17.0	231
All	All	Total	246%	197.0	1,881	0.72	141.5	1,415

NA = programs did not report ex ante kW as such realization rates were not determined. Source: Evaluation Analysis

Table 4-3. Participation and Acquisition Costs in PY7

				Cost					
Portfolio	Sector	ComEd PY7 Program	First Year Cost per First Year Net Annual Savings	First Year Cost per Net Lifetime Savings	Program Costs	IL UCT Test	# Units	Units Definition	Weighted Average Measure Life
EEPS	Residential	Residential Energy Star Lighting	\$95.48	\$16.18	\$20,374,111	3.83	12,237,113	Bulbs	5.9
EEPS	Residential	Residential Fridge and Freezer	\$180.23	\$15.02	\$3,403,623	3.19	40,964	Appliances	12.0
EEPS	Residential	Multifamily - Tenant Area	\$355.98	\$59.33	\$1,410,739	0.85	129,250	Measures	6.0
EEPS	Residential	Home Energy Rebates	\$593.57	\$32.98	\$2,787,986	3.95	8,541	Measures	18.0
EEPS	Residential	Home Energy Assessments	\$628.28	\$106.49	\$2,690,914	0.45	170,122	Measures	5.9
EEPS	Residential	Residential New Construction	\$463.71	\$23.19	\$240,200	3.67	874	Homes	20.0
EEPS	Residential	Elementary Energy Education	\$148.62	\$21.54	\$228,425	2.28	14,254	Kits	6.9
EEPS	Residential	Subtotal	\$125.92	\$18.98	\$31,135,998		12,601,118		6.6
EEPS	Business	Business Standard	\$165.97	\$13.07	\$30,007,158	3.52	4977	Measures	12.7
EEPS	Business	Business Instant Lighting Discount	\$100.49	\$12.56	\$15,600,454	5.31	2250178	Bulbs	8.0
EEPS	Business	Small Business Energy Savings	\$243.73	\$17.79	\$17,964,224	2.53	959103	Measures	13.7
EEPS	Business	Business Custom	\$211.14	\$17.17	\$3,966,886	5.03	123	Projects	12.3
EEPS	Business	New Construction	\$332.72	\$27.73	\$5,501,810	3.09	57	Projects	12.0
EEPS	Business	Retro-Commissioning	\$197.23	\$39.45	\$4,280,406	1.90	64	Projects	5.0
EEPS	Business	Industrial Systems	\$324.04	\$32.08	\$3,324,964	2.37	25	Projects	10.1
EEPS	Business	Data Centers	\$172.59	\$11.51	\$1,138,942	5.87	14	Projects	15.0
EEPS	Business	LED Street Lighting	\$825.66	\$67.68	\$379,802	0.65	735	Measures	12.2
EEPS	Business	Subtotal	\$169.73	\$15.52	\$82,164,646		3,215,276		10.9
EEPS	Third Party	Energy Check/Pulse	\$ -	\$ -	\$ -		10,607	Participants	
EEPS	EEPS Carryover		\$ -	\$ -	\$ -	NA			
EEPS	EEPS Carryover	Residential Energy Star Lighting	\$ -	\$ -	\$ -	NA	1539885	Bulbs	5.4
EEPS	EEPS Carryover	Business Instant Lighting Discount (BILD)	\$ -	\$ -	\$ -	NA	111272	Bulbs	8.0
EEPS	EEPS Carryover	Subtotal	\$0.00	\$0.00	\$0		1,651,157		6.1
EEPS		Portfolio Total	\$139.90	\$15.29	\$113,300,644		17,478,158		9.2
IPA	ComEd IPA	Small Business Energy Savings IPA	\$277.25	\$19.80	\$27,725,240	NA		Measures	14.0
IPA	ComEd IPA	Home Energy Report	\$49.66	\$49.66	\$10,194,075	NA		Participants	1.0
IPA	ComEd IPA	Residential Lighting IPA Carryover	\$28.17	\$9.39	\$151,196	NA	NA		3.0
IPA	ComEd IPA	Subtotal	\$122.55	\$23.48	\$38,070,511		2,875,595		
IPA	Third Party IPA	Elevate Electric Multifamily	\$532.59	\$38.32	\$483,595	NA		Measures	13.9
IPA	Third Party IPA	CUB	\$195.69	\$195.69	\$239,528	NA		Participants	1.0
IPA	Third Party IPA	Energy Stewards*	\$ -	\$ -	\$ -	NA		Measures	1.0
IPA	Third Party IPA		\$339.18	\$52.23	\$723,123		18,033		
IPA		Portfolio Total	\$124.03	\$23.72	\$38,793,634		2,893,628		5.2
All	All	Total	\$135.48	\$16.81	\$152,094,278		20,371,786		8.1

NA = Not Applicable. In the case of IL UCT Test, Navigant did not perform UCT analysis on this program.

* Costs weren't av ailable in ComEd's PY7 TRC analysis report Source: Evaluation Analysis. Costs data from Utility Cost Test (UCT), sourced from PY7 TRC Reports.

NAVIGANT

Table 4-4. Verified First Year and Lifetime MWh Savings in PY8

			Verified Gross Savings				Verified Net Sa	Verified Net Savings		
Portfolio	Sector	ComEd PY8 Program	Verified Gross Realization Rate (%)	First Year Annual Energy Savings (MWH) - Gross	Lifetime Savings (MWh) - Gross	NTG (%)	First Year Annual Energy Savings (MWh) - Net	Lifetime Savings (MWh) - Net		
EEPS	Residential	Residential Fridge and Freezer*	101%	26,185	208,956	0.54	14,221	113,484		
EEPS	Residential	Multifamily - Tenant Area	100%	3,268	21,013	0.98	3,123	20,081		
EEPS	Residential	HVAC and Weatherization	104%	18,770	279,485	1.00	18,743	279,083		
EEPS	Residential	Home Energy Assessments	97%	8.875	60,528	0.82	7,316	49,895		
EEPS	Residential	Residential New Construction	101%	547	10,949	1.00	547	10,949		
EEPS	Residential	Elementary Energy Education	97%	1,734	12,726	0.98	1,700	12,478		
EEPS	Residential	Appliance Rebates	101%	5,580	59,929	0.80	4,446	47,750		
EEPS	Residential	Meter Genius Pilott	-	-		-	-	-		
EEPS	Residential	Subtotal	101%	64.959	653.587	0.77	50.096	533,720		
EEPS	Business	Business Standard	99%	230,289	2,765,771	0.71	164,471	1,975,297		
EEPS	Business	Business Instant Lighting Discount	96%	282,451	1,931,128	0.76	191,523	1,470,897		
EEPS	Business	Business Custom	79%	26,725	316,959	0.68	18,173	215,532		
EEPS	Business	New Construction‡	90%	43,303	866,060	0.80	34,642	706,060		
EEPS	Business	Retro-Commissioning	99%	25,215	126,075	0.95	23,955	119,775		
EEPS	Business	Industrial Systems	107%	39,434	279,981	0.75	29,576	209,990		
EEPS	Business	Data Centers	103%	19,153	287,295	0.60	11,492	172,380		
EEPS	Business	AirCare Plus	100%	2,786	8,943	0.90	2,507	8,047		
EEPS	Business	Agentis Business Energy Analyzer Pilot	100%	59,217	59,217	1.00	59,217	59,217		
EEPS	Business	Root3 Pilot	39%	108		0.95	103			
EEPS	Business	Strategic Energy Management Pilot	113%	7,160	7,160	0.95	6,800	6.800		
EEPS	Business	Subtotal	106%	735.841	6.648.589	0.93	542.459	4.943.994		
EEPS	EEPS Carryover	Residential Energy Star Lighting§	106%	87,810	442,562	0.62	542,439	273,531		
EEPS		Business Instant Lighting Discount (BILD)	100%	31,002	153,770	0.65	19.687	99.805		
EEPS	EEPS Carryover		383%	118,812	596.332	0.63	73,959	373,336		
EEPS	EEFS Carryover	Portfolio Total	117%	919,612	7,898,508	0.03	666,514	5,851,050		
IPA	ComEd IPA	Residential Lighting - IPA	117%	381,167	2,904,493	0.67	254,854	1,941,987		
IPA	ComEd IPA	Small Business Energy Savings	101%	168,928	1,957,876	0.07	153,724	1,781,661		
IPA	ComEd IPA	LED Street Lighting	101%	5,978	72.932	1.00	5.978	72.932		
IPA	ComEd IPA	Home Energy Report	97%	252,036	252,036	1.00	252,036	252,036		
IPA	ComEd IPA	C3 Home Energy Reports	51 /6	1,885	1,885	1.00	1,885	1,885		
IPA	ComEd IPA	Residential Lighting IPA Carryover	-	7,842	51,992	0.54	4,234	28.071		
IPA	ComEd IPA	ComEd IPA Total	108%	817,836	5,241,213	0.82	672,711	4,078,573		
IPA IPA	Third Party IPA	Elevate Electric Multifamily	96%	1,991	5,241,213	0.82	1,784	4,078,573		
IPA	,	-	90 /8	2,169	2,169	1.00	2,169			
	Third Party IPA	CUB	-				2,169	2,169		
IPA IPA	Third Party IPA	Great Energy Stewards† National Theatre for Children	- 98%	- 1,332	NA 7,086	- 0.94	- 1,247	NA6,634		
	Third Party IPA									
IPA	Third Party IPA	AirCare Plus	100%	7,678	15,586	0.90	6,910	14,027		
IPA	Third Party IPA	CLEAResult School Direct Install	104%	813	7,764	0.95	773	7,382		
IPA	Third Party IPA	Matrix School Direct Install	84%	191	2,754	0.95	181	2,610		
IPA	Third Party IPA	Matrix Demand Control Ventilation	100%	11	106	0.80	8	85		
IPA	Third Party IPA	Weidt Group New Construction	92%	42	42	1.00	42	42		
IPA	Third Party IPA	Third Party IPA Total	117%	14,226	44,447	0.92	13,114	40,959		
IPA		IPA Total	108%	832,062	5,285,660	0.82	685,825	4,119,532		
All	All	EEPS and IPA Total	112%	1,720,673	13,184,168	0.79	1,352,339	9,970,582		

* Includes the part use factor

† Savings from the Meter Genius pilot and Energy Stewards program were not statistically significant, which means they cannot be causally attributed to the program.

With interactive effects
 § There were no EEPS savings reported for the Residential Lighting program (only carry over savings).
 Source: Evaluation Analysis

Table 4-5. Verified First Year and Lifetime MW Savings in PY8

			Verified Gross	Verified Gross S	Savings		Verified Net Savings	
Portfolio	Sector	ComEd PY8 Program	Realization Rate (%)	First Year Peak Demand Savings (MW) - Gross	Lifetime Savings (MW) - Gross	NTG (%)	First Year Peak Demand Savings (MW) - Net	Lifetime Savings (MW) - Net
EEPS	Residential	Residential Fridge and Freezer	101%	2.6	21.0	0.5	1.4	11.3
EEPS	Residential	Multifamily - Tenant Area	100%	0.3	2.1	1.0	0.3	2.0
EEPS	Residential	HVAC and Weatherization	107%	4.8	71.1	1.0	4.8	70.7
EEPS	Residential	Home Energy Assessments	103%	0.9	6.2	0.8	0.7	5.1
EEPS	Residential	Residential New Construction	NA	0.3	5.5	1.0	0.3	5.5
EEPS	Residential	Elementary Energy Education	111%	0.2	1.4	1.0	0.2	1.3
EEPS	Residential	Appliance Rebates	96%	0.9	9.6	0.8	0.8	8.2
EEPS	Residential	Subtotal	106%	10.0	116.9	0.8	8.4	104.2
EEPS	Business	Business Standard	81%	25.8	310.1	0.7	18.7	224.8
EEPS	Business	Business Instant Lighting Discount	NA	51.1	392.4	0.8	39.0	299.5
EEPS	Business	Business Custom	123%	3.6	42.7	0.7	2.4	29.0
EEPS	Business	New Construction§§	81%	8.6	171.8	0.8	6.9	137.4
EEPS	Business	Retro-Commissioning	38%	0.5	2.5	1.0	0.5	2.4
EEPS	Business	Industrial Systems	110%	4.9	34.6	0.8	4.1	29.0
EEPS	Business	Data Centers	103%	1.8	26.4	0.6	1.0	15.0
EEPS	Business	AirCare Plus	NA	0.3	1.1	0.9	0.3	1.0
EEPS	Business	Agentis Business Energy Analyzer Pilot	NA	NA	NA	NA	NA	NA
EEPS	Business	Root3 Pilot	NA	NA	NA	NA	NA	NA
EEPS	Business	Strategic Energy Management Pilot	NA	NA	NA	NA	NA	NA
EEPS	Business	Subtotal	184%	96.6	981.6	0.8	72.9	738.3
EEPS	EEPS Carryover	Residential Energy Star Lighting	NA	9.9	49.9	0.6	6.3	31.8
EEPS	EEPS Carryover	Business Instant Lighting Discount (BILD)	NA	6.3	31.2	0.6	4.1	20.3
EPS	EEPS Carryover	Subtotal	NA	16.2	81.1	0.6	10.4	52.1
EEPS		Portfolio Total	198%	122.8	1,179.7	0.7	91.8	894.5
PA	ComEd IPA	Residential Lighting - IPA	NA	46.3	352.8	0.7	31.0	236.2
PA	ComEd IPA	Small Business Energy Savings	NA	26.0	301.6	0.9	23.7	274.5
IPA	ComEd IPA	LED Street Lighting	NA	1.0	12.1	1.0	1.0	12.1
PA	ComEd IPA	Home Energy Report	NA	NA	NA	NA	NA	NA
PA	ComEd IPA	C3 Home Energy Reports	NA	NA	NA	NA	NA	NA
PA	ComEd IPA	Residential Lighting IPA Carryover	NA	1.0	6.6	0.5	0.5	3.3
PA	ComEd IPA	ComEd IPA Total	NA	74.3	673.1	0.8	56.2	526.1
PA	Third Party IPA	Elevate Electric Multifamily	NA	0.1	0.6	0.8	0.1	0.5
PA	Third Party IPA	CUB	NA	NA	NA	NA	NA	NA
IPA	Third Party IPA	Great Energy Stewards‡	NA	NA	NA	NA	NA	NA
PA	Third Party IPA	National Theatre for Children	NA	0.2	1.1	1.0	0.2	1.1
PA	Third Party IPA	AirCare Plus	NA	0.1	0.1	0.9	0.1	0.1
PA	Third Party IPA	CLEAResult School Direct Install	369%	0.2	1.9	1.0	0.2	1.8
PA	Third Party IPA	Matrix School Direct Install	241%	0.0	0.6	1.0	0.0	0.6
PA	Third Party IPA	Matrix Demand Control Ventilation	NA	NA	NA	NA	NA	NA
PA	Third Party IPA	Weidt Group New Construction	79%	0.0	0.0	1.0	0.0	0.0
PA	Third Party IPA	Third Party IPA Total	312%	0.6	4.3	0.9	0.6	4.0
PA		IPA Total	95368%	75.0	677.4	0.8	56.8	530.1
AII	All	EEPS and IPA Total	318%	197.7	1,857.1	0.8	148.5	1,424.6

NA = programs did not report ex ante kW or there was no realization of kW savings, as such realization rates were not determined. Source: Evaluation Analysis

Table 4-6. Participation and Acquisition Costs in PY8

					Cost				Participation			
Portfolio	Sector	ComEd PY8 Program	Verified Gross Realization Rate (%)	First Year Cost per First Year Net Annual Savings	First Year Cost per Net Lifetime Savings	Program Costs	IL UCT Test	# Units	Units Definition	Weighted Average Measure Life		
EEPS	Residential	Residential Fridge and Freezer*	101%	\$426.55	\$53.45	\$6,065,962	1.03	31,801	Appliances	8.0		
EEPS	Residential	Multifamily - Tenant Area	100%	\$87.30	\$13.58	\$272,636	3.73	92,981	Measures	6.4		
EEPS	Residential	HVAC and Weatherization	104%	\$553.97	\$37.20	\$10,383,126	1.65	42,137	Projects	14.9		
EEPS	Residential	Home Energy Assessments	97%	\$680.16	\$99.73	\$4,976,059	0.37	239,961	Measures	6.8		
EEPS	Residential	Residential New Construction	101%	\$497.69	\$24.88	\$272,459	3.79	749	Homes	20.0		
EEPS	Residential	Elementary Energy Education	97%	\$157.32	\$21.43	\$267,437	2.50	13,474	Kits	7.3		
EEPS	Residential	Appliance Rebates	101%	\$998.69	\$92.99	\$4,440,178	0.63	40,740	Appliances	10.7		
EEPS	Residential	Meter Genius Pilot†	-			\$71,474	-	6,016	Participants	1.0		
EEPS	Residential	Subtotal	101%	\$533.96	\$50.12	\$26,749,332		467,859)	10.7		
EEPS	Business	Business Standard	99%	\$193.33	\$16.10	\$31,797,044	2.07	4,382	Measures	12.0		
EEPS	Business	Business Instant Lighting Discount	96%	\$59.77	\$7.78	\$11,447,175	6.42	1,556,456	Bulbs	7.7		
EEPS	Business	Business Custom	79%	\$162.03	\$13.66	\$2,944,591	4.64	75	Projects	11.9		
EEPS	Business	New Construction‡	90%	\$229.27	\$11.25	\$7,942,255	5.38	74	Projects	20.0		
EEPS	Business	Retro-Commissioning	99%	\$180.76	\$36.15	\$4,330,066	1.20	80	Projects	5.0		
EEPS	Business	Industrial Systems	107%	\$207.61	\$29.24	\$6,140,399	2.38	74	Projects	7.1		
EEPS	Business	Data Centers	103%	\$263.07	\$17.54	\$3,023,224	3.02		Projects	15.0		
EEPS	Business	AirCare Plus	100%	\$168.33	\$52.44	\$422,008	1.07	553	Measures	3.2		
EEPS	Business	Agentis Business Energy Analyzer Pilot	100%	\$8.87	\$8.87	\$525,000	4.09	1,374	Participants	1.0		
EEPS	Business	Root3 Pilot	39%	\$609.16		\$62,500	NA		Project	NA		
EEPS	Business	Strategic Energy Management Pilot	113%	\$39.61	\$39.61	\$269,363	5.10		Participants	1.0		
EEPS	Business	Subtotal	106%	\$127.02	\$13.94	\$68,903,624		1,563,108		9.1		
EEPS		Residential Energy Star Lighting§	-	\$0.00	\$0.00	\$0	NA	2,714,372		5.0		
EEPS		Business Instant Lighting Discount (BILD)	100%	\$0.00	\$0.00	\$0	NA	321,813		5.0		
EEPS	EEPS Carryover		383%	\$0.00	\$0.00	\$0		3,036,185		5.0		
EEPS		Portfolio Total	117%	\$143.51	\$16.35	\$95,652,956	1.78	5,067,152		8.8		
IPA	ComEd IPA	Residential Lighting - IPA	117%	\$137.21	\$18.01	\$34,967,703	1.68	10,773,575	Bulbs	7.6		
IPA	ComEd IPA	Small Business Energy Savings	101%	\$221.03	\$19.07	\$33,978,009	1.32	784,534	Measures	11.6		
IPA	ComEd IPA	LED Street Lighting	100%	\$656.00	\$53.77	\$3,921,563	NA	10,077	Measures	12.2		
IPA	ComEd IPA	Home Energy Report	97%	\$35.56	\$35.56	\$8,961,499	NA	1,720,609	Participants	1.0		
IPA	ComEd IPA	C3 Home Energy Reports	-	\$0.00	\$0.00	\$0	NA		Participants	1.0		
IPA	ComEd IPA	Residential Lighting IPA Carryover	-	\$0.00	\$0.00		NA	184,551		6.6		
IPA	ComEd IPA	ComEd IPA Total	108%	\$121.64	\$20.06	\$81,828,774		13.673.346		6.1		
IPA	Third Party IPA	Elevate Electric Multifamily	96%	\$382.93	\$85.29	\$683,155	NA	13.866	Measures	4.5		
IPA	Third Party IPA	CUB	-	\$69.16	\$69.16	\$150,000	NA	9,486	Participants	1.0		
IPA	Third Party IPA	Great Energy Stewards†	-			\$0	NA		Participants	NA		
IPA	Third Party IPA	National Theatre for Children	98%	\$558.20	\$104.93	\$696,081	NA	7,612		5.3		
IPA	Third Party IPA	AirCare Plus	100%	\$289.74	\$142.73	\$2,002,088	0.44		Measures	2.0		
IPA	Third Party IPA	CLEAResult School Direct Install	104%	\$269.57	\$28.23	\$208,379	NA		Measures	9.6		
IPA	Third Party IPA	Matrix School Direct Install	84%	\$178.00	\$12.34	\$32,218	NA	1.	Measures	14.4		
IPA	Third Party IPA	Matrix Demand Control Ventilation	100%	\$248.44	\$24.84	\$2,099	NA		Measures	10.0		
IPA	Third Party IPA	Weidt Group New Construction	92%	\$10,367.41	\$10,367.41	\$433,876	NA		Project	1.0		
IPA		Third Party IPA Total	117%	\$320.86	\$102.73	\$4.207.896		37,365		3.1		
IPA	initia i unty il A	IPA Total	108%	\$125.45	\$20.89	\$86,036,670	1.48	13,710,711		6.0		
All	All	EEPS and IPA Total	112%	\$134.35	\$18.22	\$181,689,626	2.29	18,777,863		7.4		
			12/0	ψ104.00	¥10.22	÷101,000,020	2.23	10,111,000				

NA = Not Applicable

* Includes the part use factor

† Savings from the Meter Genius pilot and Energy Stewards program were not statistically significant, which means they cannot be causally attributed to the program.

‡ With interactive effects

§ There were no EEPS savings reported for the Residential Lighting program (only carry over savings). Source: Evaluation Analysis. Costs data from Utility Cost Test (UCT), sourced from PY8 TRC Reports.

Table 4-7. EEPS Verified First Year and Lifetime MWh Savings in PY9

			_	Verified Gros	s Savings		Verified Net	Savings
Portfolio	Sector	ComEd PY9 Program	Verified Gross Realization Rate (%)	First Year Annual Energy Savings (MWh) - Gross	Lifetime Savings (MWh) - Gross	NTG (%)	First Year Annual Energy Savings (MWh) - Net	Lifetime Savings (MWh) - Net
EEPS	Business	AirCare Plus	100%	14,149	52,516	0.90	12,734	47,265
EEPS	Business	C&I New Construction	79%	64,300	1,093,093	0.77	49,511	841,681
EEPS	Business	Custom	86%	41,746	536,183	0.58	24,213	310,986
EEPS	Business	Data Center Efficiency	102%	47,112	690,756	0.64	30,152	442,084
EEPS	Business	Industrial Systems Optimization	84%	32,524	272,893	0.80	26,019	218,315
EEPS	Business	Instant Discounts	92%	220,479	2,263,404	0.78	171,805	1,763,724
EEPS	Business	Operational Savings	95%	4,128	47,593	0.95	3,922	45,213
EEPS	Business	Retrocommissioning (RCx)	104%	35,156	191,393	0.95	33,398	181,823
EEPS	Business	Standard	95%	380,839	4,509,841	0.70	265,810	3,147,687
EEPS	Business	Strategic Energy Management (SEM)	122%	15,978	79,890	1.00	15,978	79,890
EEPS	Business	Subtotal	93%	856,411	9,737,562	0.74	633,542	7,078,668
EEPS	Pilot Business	Business Energy Analyzer		-	-		276,462	276,462
EEPS	Pilot Business	Multi-family Common Area Pilot	101%	4,622	53,624	0.95	4,391	50,943
EEPS	Pilot Business	Subtotal	101%	4,622	53,624	0.95	280,853	327,405
EEPS	Residential	Appliance Rebates	99%	44,175	436,857	0.92	40,743	402,912
EEPS	Residential	Elementary Education Kits	72%	4,377	39,712	1.00	4,377	39,712
EEPS	Residential	Fridge Freezer Recycling	104%	66,334	528,008	0.52	34,336	273,304
EEPS	Residential	Heating, Cooling & Weatherization Rebates (HVAC)	99%	19,607	365,646	0.99	19,421	362,177
EEPS	Residential	Heating, Cooling & Weatherization Rebates (Wx)	116%	1,410	25,935	1.01	1,425	26,194
EEPS	Residential	Home Energy Assessments	100%	30,688	304,484	0.82	25,223	250,263
EEPS	Residential	Multi-Family Comprehensive EE	100%	5,665	45,297	0.97	5,491	43,907
EEPS	Residential	Residential New Construction	102%	1,450	26,103	0.65	943	16,967
EEPS	Residential	Subtotal	100%	173,707	1,772,042	0.76	131,958	1,415,438
EEPS	Pilot Residential	Bidgely		-	-		100	100
EEPS	Pilot Residential	Nest Seasonal Savings*		-	-		3,522	3,522
EEPS	Pilot Residential	Subtotal					3,621	3,621
EEPS	EEPS Carryover	Instant Discounts (carryover)	100%	15,998	143,980	0.69	11,007	99,066
EEPS	EEPS Carryover	Lighting Discounts (carryover)	85%	41,575	176,198	0.63	26,095	110,594
EEPS	EEPS Carryover	Subtotal	89%	57,573	320,177	0.64	37,103	209,660
EEPS		Portfolio Total	94%	1,092,312	11,883,406	1.73	1,087,076	9,034,792

Source: Evaluation Analysis.



Table 4-8. EEPS Verified First Year and Lifetime MW Savings in PY9

			_	Verified Gros	_	Verified Net Savings			
Portfolio	Sector	ComEd PY9 Program	Verified Gross Realization Rate (%)	First Year Peak Demand Savings (MW) - Gross	Lifetime Savings (MW) - Gross	NTG (%)	First Year Peak Demand Savings (MW) - Net	Lifetime Savings (MW) - Net	
EEPS	Business	AirCare Plus	NA	1.9	7.0	0.90	1.7	6.3	
EEPS	Business	C&I New Construction	68%	11.1	189.4	0.77	8.6	145.8	
EEPS	Business	Custom	NA	5.6	71.9	0.58	3.3	41.7	
EEPS	Business	Data Center Efficiency	NA	4.5	65.7	0.64	2.9	42.1	
EEPS	Business	Industrial Systems Optimization	NA	4.2	35.4	0.80	3.4	28.3	
EEPS	Business	Instant Discounts	90%	43.7	450.3	0.78	34.1	350.9	
EEPS	Business	Operational Savings	NA	-	-	-	-	-	
EEPS	Business	Retrocommissioning (RCx)	138%	2.3	12.5	0.95	2.2	11.9	
EEPS	Business	Standard	NA	44.0	519.3	0.70	30.7	362.7	
EEPS	Business	Strategic Energy Management (SEM)	NA	-	-	-	-	-	
EEPS	Business	Subtotal	198%	117.4	1,351.5	0.74	86.8	989.7	
EEPS	Pilot Business	Business Energy Analyzer	NA	-	-	-	-	-	
EEPS	Pilot Business	Multi-family Common Area Pilot	NA	0.5	6.0	0.95	0.5	5.7	
EEPS	Pilot Business	Subtotal	NA	0.5	6.0	0.95	0.5	5.7	
EEPS	Residential	Appliance Rebates	NA	10.1	100.0	0.96	9.7	95.8	
EEPS	Residential	Elementary Education Kits	NA	0.4	4.0	1.00	0.4	4.0	
EEPS	Residential	Fridge Freezer Recycling	103%	9.0	72.0	0.52	4.6	37.1	
EEPS	Residential	Heating, Cooling & Weatherization Rebates (HVAC)	NA	7.6	142.1	0.99	7.6	140.7	
EEPS	Residential	Heating, Cooling & Weatherization Rebates (Wx)	NA	0.6	10.5	1.01	0.6	10.6	
EEPS	Residential	Home Energy Assessments	NA	3.6	35.5	0.83	3.0	29.5	
EEPS	Residential	Multi-Family Comprehensive EE	NA	0.6	4.4	0.98	0.5	4.3	
EEPS	Residential	Residential New Construction	NA	0.7	12.8	0.65	0.5	8.3	
EEPS	Residential	Subtotal	1189%	32.6	381.3	0.82	26.9	330.4	
EEPS	Pilot Residential	Bidgely	NA	-	-	-	-	-	
EEPS	Pilot Residential	Nest Seasonal Savings*	NA	-	-	-	5.2	5.2	
EEPS	Pilot Residential	Subtotal	NA		-	-	5.2	5.2	
EEPS	EEPS Carryover	Instant Discounts (carryover)	100%	3.2	28.6	0.69	2.2	19.7	
EEPS	EEPS Carryover	Lighting Discounts (carryover)	NA	4.6	19.4	0.63	2.9	12.2	
EEPS	EEPS Carryover	Subtotal	1040%	7.8	48.0	0.65	5.1	31.9	
EEPS		Portfolio Total	342%	158.3	1,786.9	0.79	124.5	1,362.9	

NA = programs did not report ex ante kW or there was no realization of kW savings, as such realization rates were not determined. Source: Evaluation Analysis.

Table 4-9. EEPS Participation and Acquisition Costs in PY9

					Cost			Participation	
Portfolio	Sector	ComEd PY9 Program	Verified Gross Realization Rate (%)	First Year Cost per First Year Net Annual Savings	First Year Cost per Net Lifetime Savings	Program Costs	IL UCT Test	# Units Units Definition	Weighted Average Measure Life
EEPS	Business	AirCare Plus	100%	\$143.30	\$38.61	\$1,824,775	0.80	2,313 Measures	3.7
EEPS	Business	C&I New Construction	79%	\$280.70	\$16.51	\$13,897,869	2.71	99 Projects	17.0
EEPS	Business	Custom	86%	\$200.90	\$15.64	\$4,864,340	2.87	123 Projects	12.8
EEPS	Business	Data Center Efficiency	102%	\$113.66	\$7.75	\$3,427,001	4.99	19 Projects	14.7
EEPS	Business	Industrial Systems Optimization	84%	\$236.16	\$28.15	\$6,144,704	1.77	231 Projects	8.4
EEPS	Business	Instant Discounts	92%	\$71.34	\$6.95	\$12,256,983	4.43	2,053,383 Bulbs	10.3
EEPS	Business	Operational Savings	95%	\$501.32	\$43.49	\$1,966,166	0.68	235 Measures	11.5
EEPS	Business	Retrocommissioning (RCx)	104%	\$246.80	\$45.33	\$8,242,643	0.97	124 Projects	5.4
EEPS	Business	Standard	95%	\$194.89	\$16.46	\$51,802,794	2.62	7,671 Measures	11.8
EEPS	Business	Strategic Energy Management (SEM)	122%	\$33.11	\$6.62	\$529,026	4.81	21 Participants	5.0
EEPS	Business	Subtotal	93%	\$165.67	\$14.83	\$104,956,303	2.64		11.4
EEPS	Pilot Business	Business Energy Analyzer		\$3.06	\$3.06	\$847,323	NA	2,666 Participants	1.0
EEPS	Pilot Business	Multi-family Common Area Pilot	101%	\$509.67	\$43.93	\$2,237,844	NA	35,183 Measures	11.6
EEPS	Pilot Business	Subtotal	101%	\$10.99	\$9.42	\$3,085,166	NA		11.6
EEPS	Residential	Appliance Rebates	99%	\$520.21	\$52.60	\$21,194,729	1.12	228,774 Appliances	9.9
EEPS	Residential	Elementary Education Kits	72%	\$221.85	\$24.45	\$970,943	2.05	376,758 Kits	9.1
EEPS	Residential	Fridge Freezer Recycling	104%	\$392.69	\$49.33	\$13,483,282	0.97	81,633 Appliances	8.0
EEPS	Residential	Heating, Cooling & Weatherization Rebates (HVAC)	99%	\$675.05	\$36.20	\$13,109,913	1.62	32,825 Projects	18.6
EEPS	Residential	Heating, Cooling & Weatherization Rebates (Wx)	116%	\$703.13	\$38.24	\$1,001,656	1.74	5,863 Projects	18.4
EEPS	Residential	Home Energy Assessments	100%	\$450.41	\$45.40	\$11,360,766	0.47	664,112 Measures	9.9
EEPS	Residential	Multi-Family Comprehensive EE	100%	\$173.65	\$21.72	\$953,581	1.02	164,740 Measures	8.0
EEPS	Residential	Residential New Construction	102%	\$597.21	\$33.18	\$562,944	2.42	1,209 Homes	18.0
EEPS	Residential	Subtotal	100%	\$474.68	\$44.25	\$62,637,814	1.16		10.2
EEPS	Pilot Residential	Bidgely		\$30,628.50	\$30,628.50	\$3,050,170	NA	1,218 Participants	1.0
EEPS	Pilot Residential	Nest Seasonal Savings*		\$ -	\$ -	NA	NA	56,166 Thermostats	1.0
EEPS	Pilot Residentia	l Subtotal		\$842.26	\$842.26	\$3,050,170	NA		1.0
EEPS	EEPS Carryover	Instant Discounts (carryover)	100%	\$ -	\$ -	\$ -	NA	69,010 Bulbs	9.0
EEPS	EEPS Carryover	Lighting Discounts (carryover)	85%	\$ -	\$ -	\$ -	NA	1,317,793 Bulbs	4.2
EEPS	EEPS Carryover	Subtotal	89%			\$-	NA		3.1
EEPS		Portfolio Total	94%	\$159.81	\$19.23	\$173,729,452	2.10		10.9

*Costs included in all the other programs that distribute smart thermostat as a measure.

NAs means evaluation did not perform UCT test. Source: Evaluation Analysis. Costs data from Utility Cost Test (UCT), sourced from PY9 TRC Reports.

Table 4-10. IPA and DCEO Verified First Year and Lifetime MWh Savings in PY9

				Verified Gros	s Savings		Verified Net Savings	
Portfolio	Sector	ComEd PY9 Program	Verified Gross Realization Rate (%)	First Year Annual Energy Savings (MWh) - Gross	Lifetime Savings (MWh) - Gross	NTG (%)	First Year Annual Energy Savings (MWh) - Net	Lifetime Savings (MWh) - Net
IPA	IPA Business	Agriculture Energy Efficiency	99%	700	7,185	0.90	630	6,466
IPA	IPA Business	AirCare Plus	99%	11,706	43,447	0.90	10,535	39,103
IPA	IPA Business	CLEAResult LLLC	99%	8,993	98,118	0.90	8,094	88,306
IPA	IPA Business	CLEAResult Schools DI	122%	1,352	5,713	0.95	1,285	5,427
IPA	IPA Business	Elevate Energy Assisted & Senior Housing	107%	1,286	13,802	0.95	1,222	13,112
IPA	IPA Business	Energy Advisor MBCx	120%	2,021	10,103	1.00	2,021	10,103
IPA	IPA Business	LED Street Lighting	100%	4,497	52,807	1.00	4,497	52,807
IPA	IPA Business	Matrix DCV	100%	828	8,283	0.89	737	7,372
IPA	IPA Business	Matrix K-12 Private Schools DI	100%	801	11,827	0.95	761	11,236
IPA IPA	IPA Business IPA Business	New Construction Small Buildings	83%	1,112 3,612	19,350 25,704	0.77	856 3,251	14,899
IPA	IPA Business	Rural Small Business EE Kits SEDAC Enhanced Building Optimization	99%	2,230	25,704	0.90	2,119	23,134
IPA	IPA Business	Small Business	100%	2,230	4,085,613	0.95	256,465	3,717,908
IPA	IPA Business	Small Commercial Lit Signage	100%	18,329	186,634	0.91	16,496	167,971
IPA	IPA Business	Subtotal	101%	339,298	4,583,174	0.90	308,969	4,171,702
IPA	IPA Residential	CLEAResult Community-based CFL Distribution	100%	21,383	101,993	1.00	21,383	101,993
IPA	IPA Residential	CUB Energy Saver	10070	21,000	101,000		2,191	2,191
IPA	IPA Residential	Elevate Energy MF All Electric	70%	1,305	5,270	0.86	1,127	4,551
IPA	IPA Residential	Home Energy Reports		-	-		442,029	442,029
IPA	IPA Residential	Lighting Discounts	99%	745,030	6,666,107	0.59	443,105	3,964,648
IPA	IPA Residential	Low-income Kits (UIC ERC)	87%	5,581	38,891	1.00	5,581	38,891
IPA	IPA Residential	NTC Gas & Electric Water Heater Kits	89%	2,232	13,124	1.00	2,232	13,124
IPA	IPA Residential	Shelton Solutions Great Energy Stewards†		-	-		530	530
IPA	IPA Residential	Subtotal	99%	775,533	6,825,386	0.61	918,179	4,567,957
IPA	IPA Carryover	Lighting Discounts (carryover)	100%	34,429	145,913	0.60	20,775	88,047
IPA	IPA Carryover	Subtotal	100%	34,429	145,913	0.60	20,775	88,047
IPA		Portfolio Total	100%	1,149,259	11,554,473	1.78	1,247,922	8,827,706
DCEO Transition		Affordable Housing New Construction	66%	40	566	1.00	40	566
DCEO Transition	•	Illinois Home Weatherization Assistance Program (IHV		802	10,526	1.00	802	10,526
DCEO Transition	•	Residential Retrofit Energy Savers Multi-Family	81%	1,006	11,983	1.00	1,006	11,983
DCEO Transition	0	Residential Retrofit: Single Family Retrofits (CBA)	96%	614	9,850	1.00	614	9,850
	n Income Eligible	Subtotal	92%	2,461	32,925	1.00	2,461	32,925
DCEO Transition DCEO Transition		C&I New Construction (DCEO)	81% 96%	2,451	41,667	0.77	1,887	32,084
DCEO Transition		Custom (DCEO)	103%	447		0.83	4.596	1.
DCEO Transition		Free Lights (DCEO) LED Street Lighting (DCEO)	103%	4,788	71,815	0.96	4,596	68,943 150,534
DCEO Transition		PHA Efficient Living (DCEO)	96%	435	5,090	1.00	435	5,090
DCEO Transition		Retrocommissioning (DCEO)	82%	201	1,404	0.95	191	1,334
DCEO Transition		Savings Through Efficient Products (STEP), DCEO	99%	1,837	20,125	0.95	1,763	19,320
DCEO Transition		Standard (DCEO)	88%	16.651	207,499	0.65	10.823	134,874
DCEO Transitio		Subtotal	93%	39,763	504,058	0.83	33,021	417,095
DCEO Transitio		Portfolio Total	93%	42,225	536,983	1.68	35,482	450,020
	All	PY9 Grand Total (EEPS+IPA+DCEO)	97%	2,283,796	23,974,863	0.72	2,370,481	18,312,518

Source: Evaluation Analysis.

Table 4-11. IPA and DCEO Verified First Year and Lifetime MW Savings in PY9

				Verified Gross Savings			Verified Net Savings			
Portfolio	Sector	ComEd PY9 Program	Verified Gross Realization Rate (%)	First Year Peak Demand Savings (MW) - Gross	Lifetime Savings (MW) - Gross	NTG (%)	First Year Peak Demand Savings (MW) - Net	Lifetime Savings (MW) - Net		
IPA	IPA Business	Agriculture Energy Efficiency	NA	0.1	1.1	0.90	0.1	1.0		
IPA	IPA Business	AirCare Plus	NA	2.1	7.8	0.90	1.9	7.0		
IPA	IPA Business	CLEAResult LLLC	NA	1.8	19.2	0.90	1.6	17.3		
IPA	IPA Business	CLEAResult Schools DI	NA	0.3	1.1	0.95	0.2	1.0		
IPA	IPA Business	Elevate Energy Assisted & Senior Housing	NA	0.1	1.4	0.95	0.1	1.4		
IPA	IPA Business	LED Street Lighting	NA	0.7	8.3	1.00	0.7	8.3		
IPA	IPA Business	Matrix K-12 Private Schools DI	NA	0.2	3.1	0.95	0.2	2.9		
IPA	IPA Business	New Construction Small Buildings	76%	0.1	2.2	0.77	0.1	1.7		
IPA	IPA Business	Rural Small Business EE Kits	NA	0.5	3.2	0.90	0.4	2.9		
IPA	IPA Business	SEDAC Enhanced Building Optimization	NA	0.3	2.0	0.95	0.3	1.9		
IPA	IPA Business	Small Business	NA	39.1	566.5	0.91	35.6	515.5		
IPA	IPA Business	Subtotal	40652%	45.3	616.0	0.91	41.2	561.0		
IPA	IPA Residential	CLEAResult Community-based CFL Distribution	NA	2.1	10.3	1.00	2.1	10.3		
IPA	IPA Residential	Elevate Energy MF All Electric	NA	0.1	0.6	0.86	0.1	0.5		
IPA	IPA Residential	Lighting Discounts	NA	87.6	779.5	0.60	52.1	464.1		
IPA	IPA Residential	Low-income Kits (UIC ERC)	NA	0.6	4.1	1.00	0.6	4.1		
IPA	IPA Residential	NTC Gas & Electric Water Heater Kits	NA	0.3	1.6	1.00	0.3	1.6		
IPA	IPA Residential	Subtotal	NA	90.7	796.1	0.61	55.3	480.6		
IPA	IPA Carryover	Lighting Discounts (carryover)	0%	4.0	16.9	0.60	2.4	10.2		
IPA	IPA Carryover	Subtotal	NA	4.0	16.9	0.60	2.4	10.2		
IPA		Portfolio Total	377033%	140.0	1,428.9	0.71	98.9	1,051.8		
DCEO Transition	Income Eligible	Affordable Housing New Construction	NA	0.0	0.1	1.00	0.0	0.1		
DCEO Transition	Income Eligible	Illinois Home Weatherization Assistance Program (IHW	NA	0.2	2.4	1.00	0.2	2.4		
DCEO Transition	Income Eligible	Residential Retrofit Energy Savers Multi-Family	NA	0.2	1.9	1.00	0.2	1.9		
DCEO Transition	Income Eligible	Residential Retrofit Single Family Retrofits (CBA)	NA	0.1	2.1	1.00	0.1	2.1		
DCEO Transition	Income Eligible	Subtotal	NA	0.5	6.6	1.00	0.5	6.6		
DCEO Transition	Public Sector	Custom (DCEO)	NA	0.1	0.9	0.82	0.1	0.8		
DCEO Transition	Public Sector	Free Lights (DCEO)	NA	0.8	11.5	0.96	0.7	11.1		
DCEO Transition	Public Sector	LED Street Lighting (DCEO)	100%	2.0	23.7	1.00	2.0	23.7		
DCEO Transition	Public Sector	PHA Efficient Living (DCEO)	NA	0.1	0.9	1.00	0.1	0.9		
DCEO Transition	Public Sector	Retrocommissioning (DCEO)	50%	0.0	0.1	0.91	0.0	0.1		
DCEO Transition	Public Sector	Savings Through Efficient Products (STEP), DCEO	NA	0.7	7.6	0.96	0.7	7.3		
DCEO Transition	Public Sector	Standard (DCEO)	NA	1.8	22.6	0.65	1.2	14.7		
DCEO Transition	Public Sector	Subtotal	290%	5.5	67.4	0.87	4.8	58.6		
DCEO Transition		Portfolio Total	352%	6.0	74.0	0.88	5.3	65.2		
	All	PY9 Grand Total (EEPS+IPA+DCEO)	1208%	304.3	1,503.0	0.75	228.7	1,117.0		

NA = programs did not report ex ante kW or there was no realization of kW savings, as such realization rates were not determined. Source: Evaluation Analysis.

Table 4-12. IPA and DCEO Participation and Acquisition Costs in PY9

					Cost			Participa	tion	
			Verified Gross	First Year Cost per Fi	ist YearCost per					Weighted Average
Portfolio	8 eoto r	ComEd PY9 Program	Realization Rate (%)	First Year Net Annual Savings	Net Lifetime 8 avin os	Program Costs	IL UCT Test	# Units	Units Definition	Measure Life
IPA	IPA Business	Agriculture Energy Efficiency	00%6	\$137.32	\$13.38	\$86,522	NA	564	Measures	10.3
IPA	IPA Business	AirCare Flus	99%	\$339.73	\$91.53	\$3,579,146	0.80	1,310	Measures	3.7
IPA	IPA Business	CLEAResultLLLC	99%6	\$360.70	\$33.05	\$2,919,552	NA	20,700	Measures	10.9
IPA	IPA Business	CLEAResultSchools DI	12296	\$290.18	\$58.58	\$372,765	NA	1,895	Measures	4.2
IPA	IPA Business	Elevate Energy Assisted & Senior Housing	10796	\$459.58	\$42.82	\$501,424	NA	2,603	Measures	10.7
IPA	IPA Business	Energy Advisor MBCx	120%	\$425.10	\$85.02	\$858,985	NA	79	Project	5.0
IPA	IPA Business	LED StreetLighting	100%	\$205.51	\$22.01	\$1,194,058	NA	6,536	Bulbs	11.7
IPA	IPA Business	Mattix DCV	100%	\$220.00	\$22.00	\$162,178	NA	177	Measures	10.0
IPA	IPA Business	Matrix K-12 Private Schools Di	100%	\$161.02	\$10.91	\$122,560	NA	4,302	Bulbs	14.8
IPA	IPA Business	New Construction Small Buildings	8396	-\$20.19	-\$1.16	-\$17,290	NA	11	Project	17.4
IPA	IPA Business	Rural Small Business EEK to	16496	\$272.31	\$38.27	\$885,316	NA	45,705	KIB	7.1
IPA	IPA Business	SEDAC Enhanced Building Optimization	99%	\$219.49	\$33.55	\$465,058	NA	287	Projects	0.5
IPA	IPA Business	Small Business	100%6	\$252.95	\$18.14	\$57,441,078	1.85	9,808	Projects	14.5
IPA	IPA Business	Small Commercial LitSignage	10196	\$202.41	\$25.77	\$4,328,704	NA	61,975	Measures	10.2
IPA	IPA Business	Subtotal	101%	\$268.61	\$19.89	\$82,960,058				13.5
IPA	IPA Residental	CLEAResult Community-based CFL Distribution	100%	\$104.65	\$21.94	\$2,237,962	NA	1,329,057	Bulbs	4.8
IPA	IPA Residental	CUB Energy Saver		\$59.15	\$59.15	\$151,519	NA	8,329	Participants	1.0
IPA	IPA Residental	Elevate Energy MFAI Electric	70%	\$383.68	\$95.01	\$432,355	NA	17,716	Measures	4.0
IPA	IPA Residental	Home Energy Reports		\$25.80	\$25.80	\$11,405,061	1.45	1,995	Partici pants	1.0
IPA	IPA Residental	Lighting Discounts	99%6	\$122.23	\$13.66	\$54,158,878	2.27	20,050,412	Bulbs	8.9
IPA	IPA Residental	Low-Income Kits (UIC ER C)	87%	\$390.05	\$55.98	\$2,177,120	NA	183,179	КВ	7.0
IPA	IPA Residental	NTC Gas & Bechic Water Heater Kits	89%	\$453.24	\$77.09	\$1,011,762	NA	55,530	Measures	5.9
IPA	IPA Residental	Shelbn Solutions Great Energy Stewards†		٤-	٤-	NA	NA -		NA	1.0
IPA	IPAResidential	Subtotal	88%	\$77.95	\$15.87	\$71,574,857				8.8
IPA	IPA Carryover	Lighting Discounts (carry over)	100%	٤-	٤-	٤-	NA	1,055,558	Bulbs	4.2
IPA	IPA Carryover	Subtotal	100%			\$ -				4.2
IPA		Portfolio Total	100%	\$123.83	\$17.61	\$154,634,714	2.02			10.1
DCEO Transition	Income Eligible	Afordable Housing New Construction	66%	\$42,783.54	\$3,008.04	\$1,702,357	0.02	,	Measures	14.2
DCEO Transition	Income Eligible	Illinois Home Weatherization Assistance Program (IHW	11396	\$1,576.56	\$120.11	\$1,264,202	0.40	410,097	Measures	13.1
DCEO Transition	Income Eligible	Residental Retroft Energy Savers Mult-Family	8196	\$1,202.50	\$105.99	\$1,270,089	0.35	1	Measures	11.9
DCEO Transiton	Income Eligible	Residental Retroft Single Family Retrofts (CBA)	9696	\$1,576.56	\$98.21	\$967,386	0.43	178,452	Measures	16.1
DCEO Transition			92%	\$2,114.43	\$168.08	\$5,204,033	0.27			13.4
DCEO Transition	Public Sector	C&I New Construction (DCEO)	8196	\$902.02	\$53.06	\$1,702,357	0.48		Projects	17.0
DCEO Transition	Public Sector	Custom (DCEO)	9696	\$502.53	\$37.93	\$185,483	0.90		Projects	13.2
DCEO Transition	Public Sector	Free Lights (DCBO)	10396	\$449.59	\$29.98	\$2,055,878	0.49		Projects	15.0
DCEO Transition	Public Sector	LED StreetLighting (DCEO)	100%6	\$167.67	\$14.43	\$2,172,195	3.36	14,303		11.6
DCEO Transition	Public Sector	PHA EfficientLiving (DCEO)	9696	\$1,829.21	\$156.35	\$795,813	0.28	1	Measures	11.7
DCEO Transition	Public Sector	Retroc ommissioning (DCEO)	82%	\$11,145.12	\$1,592.10	\$2,123,280	0.02		Projects	7.0
DCEO Transition	Public Sector	Savings Through Efficient Products (STEP), DCEO	99%6	\$302.79	\$27.63	\$533,838	2.29		Measures	11.0
DCEO Transiton	Public Sector	Standard (DCEO)	88%5	\$541.00	\$51.49	\$5,944,955	0.36	701	Projects	12.5
DCEO Transition	Publio 8 eoto r	Subtotal	83%	\$500.48	\$39.62	\$18,525,801	0.80			12.7
DCEO Transition		Portfolio Total	83%	\$612.42 \$896	\$48.29 \$85	\$21,729,884				12.7
	All	PY9 Grand Total (EEP8 +IPA+DCEO)	87%	\$596	\$85	\$349,994,001	1.97			10.6

Note: The PY9 CUB cost is prorated using the \$/kWh for PY8 and multiply it with PY9 kWh. Costs were not available during final TRC analysis.

NAs means evaluation did not perform UCT test.

Source: Evaluation Analysis. Costs data from Utility Cost Test (UCT), sourced from PY9 TRC Reports.



Table 4-13. Cost Effectiveness (TRC) 3-Year Summary Results - ComEd Only

Portfolio	Sector	Program	TRC Benefits	TRC Costs	Net TRC Benefits	TRC Ratio
EEPS	Business	Strategic Energy Management (SEM)	\$3,931,157	\$798,389	\$3,132,767	4.92
EEPS	Business	Energy Analyzer	\$2,148,837	\$525,000	\$1,623,837	4.09
EEPS	Business	Instant Discounts	\$231,537,562	\$60,530,130	\$171,007,432	3.83
EEPS	Business	Industrial Systems Optimization	\$33,555,596	\$14,983,017	\$18,572,579	2.24
EEPS	Business	Standard	\$425,170,660	\$212,533,895	\$212,636,765	2.00
EEPS	Business	Custom	\$48,185,547	\$27,407,591	\$20,777,956	1.76
EEPS	Business	LED Streetlighting*	\$250,328	\$149,389	\$100,939	1.68
EEPS	Business	C&I New Construction	\$100,233,436	\$63,269,943	\$36,963,492	1.58
EEPS	Business	AirCare Plus (EEPS + IPA)*	\$5,640,981	\$4,237,574	\$1,403,407	1.33
EEPS	Business	Data Center Efficiency	\$33,887,213	\$26,337,516	\$7,549,697	1.29
EEPS	Business	Retrocommissioning	\$21,043,114	\$16,740,349	\$4,302,765	1.26
EEPS	Business	Operational Savings	\$1,381,879	\$1,893,926	-\$512,047	0.73
EEPS	Business	Subtotal	\$906,966,308	\$429,406,720	\$477,559,587	2.11
EEPS	EEPS Carryover	Lighting Discounts	\$82,736,682	\$3,250,502	\$79,486,180	25.45
EEPS	Residential	Elementary Education Kits	\$12,596,004	\$1,415,807	\$11,180,196	8.90
EEPS	Residential	Multi-Family Comprehensive EE	\$4,719,235	\$2,392,507	\$2,326,727	1.97
EEPS	Residential	Fridge Freezer Recycling	\$33,015,199	\$20,486,750	\$12,528,449	1.61
EEPS	Residential	Heating, Cooling & Weatherization Rebates (Wx)	\$1,792,828	\$1,266,054	\$526,773	1.42
EEPS	Residential	Appliance Rebates	\$43,585,795	\$39,876,836	\$3,708,958	1.09
EEPS	Residential	Heating, Cooling & Weatherization Rebates (HVAC)	\$39,525,373	\$43,818,840	-\$4,293,466	0.90
EEPS	Residential	Residential New Construction	\$3,329,090	\$4,249,386	-\$920,296	0.90
EEPS	Residential	Home Energy Assessments	\$13,743,544	\$19,226,816	-\$5,483,272	0.78
EEPS	Residential	Meter Genius Pilot	\$13,743,544	\$19,220,810	-\$5,465,272	0.00
EEPS	Residential	Subtotal	\$235,044,029	\$136,054,973	\$98,989,057	1.73
EEPS	Residential	Portfolio Total	1,142,010,337	565,461,693	576,548,644	2.02
IPA	IPA Business	Small Business (EEPS + IPA)*	\$225,144,142	\$117,949,010	\$107,195,132	1.91
IPA	IPA Business	Subtotal	225,144,142	117,949,010	107,195,132	1.91
IPA	IPA Residential	Lighting Discounts	\$305,446,942	\$198,719,225	\$106,727,717	1.54
IPA	IPA Residential	Home Energy Reports	\$15,852,511	\$10,969,244	\$4,883,267	1.45
IPA	IPA Residential	Subtotal	321,299,454	209.688.469	111,610,984	1.45
IPA	IPA Carryover	Instant Discounts	\$8.415.217	209,000,409	\$8,415,217	NA
IPA	IPA Carryover	Lighting Discounts	\$7,338,070	\$0	\$7,338,070	NA
IPA	IPA Carryover	Subtotal	15,753,287		15,753,287	NA
IPA	IFA Gallyover	Portfolio Total	562,196,883	327,637,479	234,559,404	1.72
DCEO Transition	Income Eligible	Illinois Home Weatherization Assistance Program (IHWAP)	\$546,833	\$474,956	\$71.878	1.15
DCEO Transition	Income Eligible	Residential Retrofit Single Family Retrofits (CBA)	\$450,740	\$488,751	-\$38,011	0.92
DCEO Transition	Income Eligible	Residential Retrofit Energy Savers Multi-Family	\$486,807	\$917,353	-\$430,546	0.53
DCEO Transition	Income Eligible	Affordable Housing New Construction	\$34,646	\$379,505	-\$344,859	0.09
DCEO Transition		Subtotal	\$34,646	\$379,505	-\$344,859 -\$741,539	0.09
DCEO Transition	Public Sector	Savings Through Efficient Products (STEP)	\$1,247,442	\$2,260,565	\$687,522	2.23
DCEO Transition	Public Sector	Free Lights	\$1,030,067	\$603.038	\$427,029	1.71
DCEO Transition	Public Sector	LED Street Lighting	\$7,464,889	\$5,988,827	\$427,029	1.71
DCEO Transition	Public Sector	C&I New Construction	\$872,519	\$1,340,195	-\$467,675	0.65
DCEO Transition	Public Sector	Standard	\$4,013,190	\$6,748,717	-\$2,735,527	0.59
DCEO Transition	Public Sector	Custom	\$173,716	\$361,018	-\$187,302	0.48
DCEO Transition	Public Sector	PHA Efficient Living	\$230,720	\$795,813	-\$565,093	0.29
DCEO Transition	Public Sector	Retrocommissioning	\$50,923	\$626,241	-\$575,318	0.08
DCEO Transition	Public Sector	Subtotal	\$15,083,466	\$17,023,770	-\$1,940,303	0.89
DCEO Transition		Portfolio Total	\$16,602,493	\$19,284,335	-\$2,681,842	0.86
	All	Grand Total	\$1,720,809,713	\$912,383,507	\$808,426,206	1.89

Note: The net TRC benefit is the difference between the TRC benefit and the TRC cost. These results are ComEd only TRCs, and excluded benefits and costs related to gas companies for the joint programs. The TRC ratio is the sum of the TRC benefits divided by sum of the total costs in 3 years. * AirCare Plus TRC value reflects both the EEPS and IPA portions of the program. SBES program had EEPS and IPA savings in PY7 until the program became fully IPA in PY8 and PY9. The combined TRC value for SBES is shown in the IPA section. LED Streetlighting (excluding DCEO transition program) and NC Small Buildings (called Weidt Group NC in PY8) were IPA in PY8 and PY9, but had relatively small savings and weren't included in the TRC Analysis. The focus of the TRC analysis was on EEPS and Large IPA programs which contributed to majority of the portfolio savings. *Source: Evaluation PY7-PY9 TRC Reports-06-26-2019.*

Table 4-14. Cost Effectiveness (TRC) 3-Year Summary Results - Joint

	Sector		PY7-PY9	Total Costs and E	Benefits		
Portfolio	Sector	Program	TRC Benefits	TRC Costs	Net TRC Benefits	TRC Ratio	
EEPS	Business	Strategic Energy Management (SEM)	\$10,327,242	\$1,615,475	\$8,711,767	6.39	
EEPS	Business	C&I New Construction	\$129,223,272	\$72,637,446	\$56,585,826	1.78	
EEPS	Business	Retrocommissioning	\$26,088,437	\$19,829,435	\$6,259,002	1.32	
EEPS	Business	Subtotal	\$165,638,951	\$94,082,356	\$71,556,595	1.76	
EEPS	Residential	Elementary Education Kits	\$26,624,482	\$3,690,422	\$22,934,060	7.21	
EEPS	Residential	Multi-Family Comprehensive EE	\$74,474,046	\$29,180,794	\$45,293,252	2.55	
EEPS	Residential	Residential New Construction	\$17,831,759	\$9,519,361	\$8,312,398	1.87	
EEPS	Residential	Home Energy Assessments	\$32,921,134	\$34,885,256	-\$1,964,122	0.94	
EEPS	Residential	Subtotal	\$151,851,421	\$77,275,833	\$74,575,588	1.97	
	All	Grand Total	\$317,490,372	\$171,358,189	\$146,132,183	1.85	

Note: The net TRC benefit is the difference between the TRC benefit and the TRC cost. These results represent the joint TRCs including benefits and costs related to gas companies for the joint programs. Source: Evaluation - Joint PY7-PY9 and GPY4-GPY6 TRC Report 2019-07-25 Final.

5. HIGH IMPACT PROGRAMS

NAVIGANT

Table 5-1 outlines the top ten business and residential programs with the highest net savings. The top 10 business programs produced 96 percent of the business portfolio savings (including public sector programs) with 4 percent from other business programs. The top 10 residential programs produced 99 percent with one percent from other residential programs, including income eligible programs.

Sector	Program	PY7 Verified Net Savings (MWh)	PY8 Verified Net Savings (MWh)	PY9 Verified Net Savings (MWh)	Total Verified Net Savings (MWh)	Percent Sector Savings (%)	Percent Portfolio Savings (%)
Business	Standard	180,799	164,471	276,633	621,903	24%	13%
IPA Business	Small Business	173,705	153,724	256,465	583,894	22%	12%
Business	Instant Discounts	155,239	191,523	223,056	569,818	22%	12%
Pilot Business	Business Energy Analyzer	-	59,217	276,462	335,679	13%	7%
Business	C&I New Construction	16,536	34,642	51,398	102,576	4%	2%
Business	Retrocommissioning	21,703	23,955	33,589	79,247	3%	2%
Business	Industrial Systems Optimization	10,261	29,576	26,019	65,856	3%	1%
Business	Custom	18,788	18,173	24,584	61,545	2%	1%
Business	Data Center Efficiency	6,599	11,492	30,152	48,243	2%	1%
Business	AirCare Plus	-	9,417	23,269	32,686	1%	1%
	Other Business	21,017	33,572	45,765	100,354	4%	2%
Business Total		604,647	729,762	1,267,391	2,601,800	100%	54%
IPA Residential	Lighting Discounts	276,521	313,360	489,975	1,079,856	48%	22%
IPA Residential	Home Energy Reports	205,278	252,036	442,029	899,343	40%	19%
Residential	Fridge Freezer Recycling	18,885	14,221	34,336	67,442	3%	1%
Residential	Appliance Rebates	4,697	4,446	40,743	49,886	2%	1%
Residential	Heating, Cooling & Weatherization Reba	-	18,743	20,845	39,588	2%	1%
Residential	Home Energy Assessments	4,283	7,316	25,223	36,822	2%	1%
IPA Residential	CLEAResult Community-based CFL Dis	-	-	21,383	21,383	1%	0%
Residential	Multi-Family Comprehensive EE	3,963	3,123	5,491	12,577	1%	0%
Residential	Elementary Education Kits	1,537	1,700	4,377	7,614	0%	0%
IPA Residential	Low-income Kits (UIC ERC)	-	-	5,581	5,581	0%	0%
	Other Residential	2,846	7,632	13,105	23,583	1%	0%
Residential Total	-	518,010	622,577	1,103,090	2,243,677	100%	46%
Grand Total		1,122,657	1,352,339	2,370,481	4,845,477		

Table 5-1. High Impact Business and Residential Programs

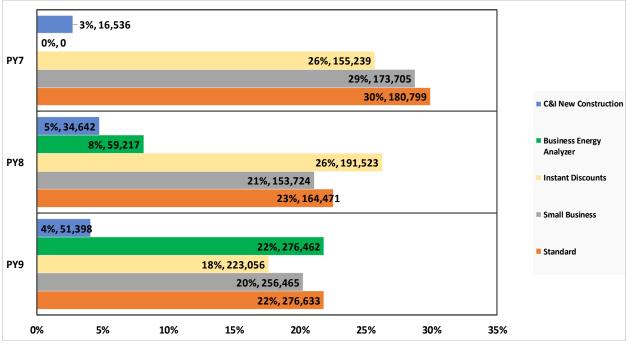
Source: Evaluation Analysis.

Figure 5-1 and Figure 5-2 compare the top 5 programs with the highest net savings in the business and residential portfolios. The top 5 business programs represent 87%, 83%, and 86% respectively from PY7 to PY9 of the business sector savings, with an average 85 percent year over year savings contribution.

The top 5 residential programs represent 93%, 97%, and 98% respectively from PY7 to PY9 of the residential sector savings, with an average 95 percent year over year savings contribution. The Lighting Discount and Home Energy Report represent 88%. Lighting Discount is almost 50% of the residential portfolio savings year over year.



Figure 5-1. Top 5 Business Programs Net MWh Savings Comparison



Source: Evaluation Analysis

Figure 5-2. Top 5 Residential Programs Net MWh Savings Comparison

