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An Exelon Company

July 17, 2017

Via Federal Express

Rosemary Chiavetta, Secretary Pennsylvania Public Utility Commission Commonwealth Keystone Building 400 North Street Second Floor Harrisburg, Pennsylvania 17120

Re: PUC Docket No. M-2015-2515691

Phase III Energy Efficiency and Conservation Program Preliminary Annual Report

for June 1, 2016 through May 31, 2017

Dear Secretary Chiavetta:

In accordance with Section IV.E.2 of the Commission's Opinion and Order Letter dated March 17, 2016 (Docket No. M-2015-2515691), enclosed is PECO's Phase III Preliminary Annual Energy Efficiency & Conservation Report for the period June 1, 2016 through May 31, 2017.

PECO is providing a copy of the report to the Act 129 Statewide Evaluator (NMR Group) and is also posting the report on the PECO website.

Richard G. Webster DR. / RAS

Please acknowledge receipt of the foregoing on the enclosed copy of this letter.

If you have any further questions regarding this matter, please call me at 215-841-5777.

Sincerely,

CC:

C. Walker-Davis, Director, Office of Special Assistants

P. T. Diskin, Director, Bureau of Technical Utility Services

K. Monaghan, Director, Bureau of Audits

R. Kanaskie, Director, Bureau of Investigation & Enforcement

Office of Consumer Advocate

Office of Small Business Advocate

McNees, Wallace & Nurick

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Preliminary Annual Report to the Pennsylvania Public Utility Commission

Phase III of Act 129

Program Year 8

(June 1, 2016 - May 31, 2017)

For Pennsylvania Act 129 of 2008

Energy Efficiency and Conservation Plan

Prepared for:

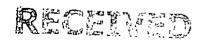


Submitted by:

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07/12/2017



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PA PUBLIC UTILITY CONTRIBUTION SECRETARY'S BURLAGE



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ACRONYMS

BDR Behavioral Demo C&I Commercial and CFL Compact Fluores	Industrial
CFL Compact Fluores	
Louis Louis Division	
CHP Combined Heat	<u> </u>
	ervice Provider or Curtailment Service Provider
DLC Direct Load Con	
DR Demand Respor	
DRA Demand Respon	
EDC Electric Distribut	
EDT Eastern Daylight	
EE Energy Efficienc	y
EE&C Energy Efficienc	y and Conservation
EM&V Evaluation, Meas	surement, and Verification
EUL Effective Useful	Life
G/E/NP Government/Edu	ucation/Non-Profit
HVAC Heating, Ventilat	ion, and Air Conditioning
ICSP Implementation	Conservation Service Provider
kW Kilowatt	
kWh Kilowatt-Hour	
LED Light-Emitting Di	ode
LI Low-Income	
LIURP Low-income Usa	ge Reduction Program
M&V Measurement ar	nd Verification
MW Megawatt	•
MWh Megawatt-Hour	
NTG Net-to-Gross	
P3TD Phase III to Date	
PA PUC Pennsylvania Pu	blic Utility Commission
PSA Phase III to Date	Preliminary Savings Achieved; Equal to VTD + PYTD
PSA+CO PSA plus Carryo	ver from Phase II
PY Program Year: e	.g., PY8, from June 1, 2016, to May 31, 2017
PYRTD Program Year Re	<u> </u>
PYTD Program Year to	Date
PYVTD Program Year Ve	erified to Date
RTD Phase III To Date	e Reported Gross Savings
RTO Regional Transm	nission Organization
SIDS Smart Ideas Date	
SWE Statewide Evalua	
TRC Total Resource (Cost



TRM	Technical Reference Manual
VTD	Phase III To Date Verified Gross Savings

TYPES OF SAVINGS

Gross Savings: The change in energy consumption and/or peak demand that results directly from program-related actions taken by participants in an energy efficiency and conservation (EE&C) program, regardless of why they participated.

Net Savings: The total change in energy consumption and/or peak demand that is attributable to an EE&C program. Depending on the program delivery model and evaluation methodology, the net savings estimate may differ from the gross savings estimate due to adjustments for the effects of free riders, changes in codes and standards, market effects, participant and nonparticipant spillover, and other causes of changes in energy consumption or demand not directly attributable to the EE&C program.

Reported Gross: Also referred to as *ex ante* (Latin for "beforehand") savings. The energy and peak demand savings values calculated by the electric distribution company (EDC) or its program implementation conservation service providers (ICSP), and stored in the program tracking system.

Verified Gross: Also referred to as *ex post* (Latin for "from something done afterward") gross savings. The energy and peak demand savings estimates reported by the independent evaluation contractor after the gross impact evaluation and associated measurement and verification (M&V) efforts have been completed.

Verified Net: Also referred to as *ex post* net savings. The energy and peak demand savings estimates reported by the independent evaluation contractor after application of the results of the net impact evaluation. Typically calculated by multiplying the verified gross savings by a net-to-gross (NTG) ratio.

Annual Savings: Energy and demand savings expressed on an annual basis, or the amount of energy and/or peak demand an EE&C measure or program can be expected to save over the course of a typical year. Annualized savings are noted as megawatt-hours (MWh) or megawatts (MW). The Pennsylvania Technical Reference Manual (TRM) provides algorithms and assumptions to calculate annual savings, and Act 129 compliance targets for consumption reduction are based on the sum of the annual savings estimates of installed measures.

Lifetime Savings: Energy and demand savings expressed in terms of the total expected savings over the useful life of the measure. Typically calculated by multiplying the annual savings of a measure by its effective useful life. The Total Resource Cost (TRC) Test uses savings from the full lifetime of a measure to calculate the cost-effectiveness of EE&C programs.

Program Year Reported to Date (PYRTD): The reported gross energy and peak demand savings achieved by an EE&C program or portfolio within the current program year. PYTD values for energy efficiency will always be reported gross savings in a semiannual or preliminary annual report.

Program Year Verified to Date (PYVTD): The verified gross energy and peak demand savings achieved by an EE&C program or portfolio within the current program year.

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Phase III to Date (P3TD): The energy and peak demand savings achieved by an EE&C program or portfolio within Phase III of Act 129. Reported in several permutations described below.

- Phase III to Date Reported (RTD): The sum of the reported gross savings recorded to date in Phase III of Act 129 for an EE&C program or portfolio.
- Phase III to Date Verified (VTD): The sum of the verified gross savings recorded to date in Phase III of Act 129 for an EE&C program or portfolio, as determined by the impact evaluation finding of the independent evaluation contractor.
- Phase III to Date Preliminary Savings Achieved (PSA): The sum of the verified gross savings (VTD) from previous program years in Phase III where the impact evaluation is complete plus the reported gross savings from the current program year (PYTD). For Program Year 8 (PY8), the PSA savings will always equal the PYTD savings because PY8 is the first program year of the phase (no savings will be verified until the PY8 final annual report).
- Phase III to Date Preliminary Savings Achieved + Carryover (PSA+CO): The sum of the
 verified gross savings from previous program years in Phase III plus the reported gross savings
 from the current program year plus any verified gross carryover savings from Phase II of Act 129.
 This is the best estimate of an EDC's progress toward the Phase III compliance targets.

Per guidance from the Pennsylvania Statewide Evaluator, all demand savings that were achieved from energy efficiency (EE) measures is shown in this report without line losses (i.e., at the meter). All demand savings that were achieved from demand response (DR) measures is shown in this report with line losses (i.e., at the generator).

Note that all values in the report are summed prior to rounding. Therefore table totals may not equal the sum of all rows.



1. INTRODUCTION

Pennsylvania Act 129 of 2008, signed on October 15, 2008, mandated energy savings and demand reduction goals for the largest Electric Distribution Companies (EDCs) in Pennsylvania for Phase I (2008 through 2013). Phase II of Act 129 began in 2013 and concluded in 2016. In late 2015, each EDC filed a new EE&C Plan with the Pennsylvania Public Utility Commission (PA PUC) detailing the proposed design of its portfolio for Phase III. These plans were updated based on stakeholder input and subsequently approved by the PUC in 2016.

Implementation of Phase III of the Act 129 programs began on June 1, 2016. This report documents the progress of the Phase III EE&C accomplishments for PECO in Program Year 8 (PY8), as well as the cumulative accomplishments of the Phase III programs since inception. This report also documents the energy savings carried over from Phase II. The Phase II carryover savings count toward EDC savings compliance targets for Phase III.

This report details the participation, spending, and reported gross impacts of the EE programs in PY8 Compliance with Act 129 savings goals will ultimately be based on verified gross savings. PECO has retained Navigant Consulting, Inc. (Navigant) as an independent evaluation contractor for Phase III of Act 129. Navigant is responsible for the M&V of the savings and calculation of verified gross savings. The verified gross savings for PY 8 EE programs will be reported in the final annual report to be filed on November 15, 2017

Phase III of Act 129 includes a DR goal for PECO. DR events are limited to the months of June through September, which are the first 4 months of the Act 129 program year. Because the DR season is completed early in the program year, it is possible to complete the independent evaluation of verified gross savings for DR sooner than is possible for EE programs. Section 6.2 of this report includes the verified gross DR impacts for PY8 as well as the cumulative DR performance of the EE&C program to date for Phase III of Act 129.

2. SUMMARY OF ACHIEVEMENTS

2.1 Carryover Savings from Phase II of Act 129

PECO has reported zero portfolio level carryover savings from Phase II to Phase III. The Commission's Phase III Implementation Order¹ allowed EDCs to carryover savings achieved within Phase II that were in excess of the Phase II portfolio savings target. Phase I carryover savings cannot be counted in calculation of Phase II carryover savings. Figure 2-1 compares PECO's Phase II verified gross savings total to the Phase II compliance target to illustrate the carryover calculation. Because PECO's Phase II verified gross savings did not exceed PECO's Phase II target, they were not eligible to carryover savings from Phase II towards their Phase III overall compliance target.

1,400,000 Phase II Verified Gross Savings 1.200,000 □ Phase I Carryover Savings Energy Savings (MWh) 1.000.000 □ Phase II Target 800,000 1,090,505 600,000 1.125,851 400.000 200,000 0 Phase II Target Phase II Verified Savings Phase II Carryover Savings

Figure 2-1. Carryover Savings from Phase II of Act 129

Sources: Smart Ideas Data System (SIDS) database, CSP tracking data.

PECO will update carryover savings in excess of the Phase II government, educational, and non-profit (G/E/NP) savings goal and excess savings from the low-income customer segment once the Commission issues the final Phase II Compliance order stipulating the amount of carry over being allowed. The Commission's Phase III Implementation Order² also allowed EDCs to carryover savings in excess of the Phase II government, educational, and non-profit (G/E/NP) savings goal and excess savings from the

Savings Total

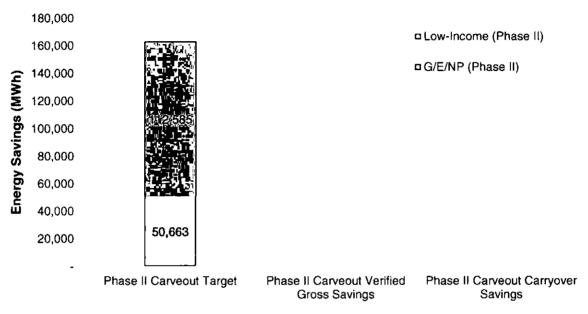
¹ Pennsylvania Public Utility Commission, *Energy Efficiency and Conservation Program Implementation Order*, at Docket No. M-2014-2424864, (*Phase III Implementation Order*), entered June 11, 2015.

² Pennsylvania Public Utility Commission, *Energy Efficiency and Conservation Program Implementation Order*, at Docket No. M-2014-2424864, (*Phase III Implementation Order*), entered June 11, 2015.

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low-income customer segment.³ PECO carried over XX⁴ MWh and XX⁵ MWh of low-income and G/E/NP customer segment savings, respectively. PECO's Phase II residential low-income savings used to determine Phase II carryover to Phase III includes only the XX⁶ MWh of Phase II savings achieved through PECO's low-income specific EE program. PECO's G/E/NP carryover calculation does not include Phase I G/E/NP carryover savings. Figure 2-2 shows the calculation of carryover savings for the low-income and G/E/NP targets.⁷

Figure 2-2. Customer Segment-Specific Carryover from Phase II



Savings Total

³ Proportionate to those savings achieved by dedicated low-income programs in Phase III.

⁴ Phase II allowed carryover savings are still under consideration by the Commission.

⁵ Phase II allowed carryover savings are still under consideration by the Commission.

⁶ Phase II allowed carryover savings are still under consideration by the Commission.

Phase II allowed carryover savings are still under consideration by the Commission.

2.2 Phase III Energy Efficiency Achievements to Date

Since the beginning of PY8 on June 1, 2016, PECO has claimed:

- 211,532. MWh of reported gross electric energy savings (PYRTD).
- 20.8 MW of reported gross peak demand savings (PYRTD) from EE programs.

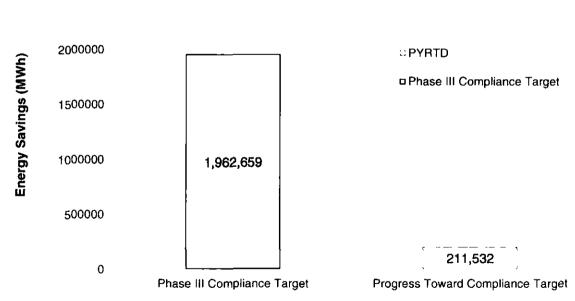
Since the beginning of Phase III of Act 129 on June 1, 2016, PECO has achieved:

- 211,532 MWh of reported gross electric energy savings (RTD).
- 20.8 MW of reported gross peak demand savings (RTD) from EE programs.
- 211,532 MWh of gross electric energy savings (PSA).
 - This total includes verified gross savings from all Phase III program years and the PYTD reported gross savings from PY8.
- 20.8 MW of gross peak demand savings (PSA) from EE programs.

Including carryover savings from Phase II, PECO has achieved:

- 211,532 MWh of PSA+CO energy savings recorded to date in Phase III.
 - This represents 10.8% of the May 31, 2021 energy savings compliance target of 1,962,659 MWh.

Figure 2-3. EE&C Plan Performance Toward Phase III Portfolio Compliance Target



Savings Total

Sources: SIDS database, CSP tracking data.

2500000

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The Phase III Implementation Order directed EDCs to offer conservation measures to the low-income customer segment based on the proportion of electric sales attributable to low-income households. The proportionate measures target for PECO is 8.8%. PECO offers a total of 269 EE&C measures to its residential and non-residential customer classes. There are 117 measures available to the low-income customer segment at no cost to the customer. This represents 47% of the total measures offered in the EE&C Plan and exceeds the proportionate number of measures target.

The PA PUC also established a low-income energy savings target of 5.5% of the portfolio savings goal. The low-income savings target for PECO is 107,946 MWh. Figure 2-4 compares the PSA+CO performance to date for the low-income customer segment to the Phase III savings target. Based on the latest available information, PECO has achieved 18.4% of the Phase III low-income energy savings target.

100000
100000
100000
100000
107,946
107,946
107,946
19,865
19,865
Phase III Compliance Target
Progress Toward Compliance Target

Figure 2-4. EE&C Plan Performance Toward Phase III Low-Income Compliance Target⁹

Sources: SIDS database, CSP tracking data.

The Phase III Implementation Order established a G/E/NP energy savings target of 3.5% of the portfolio savings goal. The G/E/NP savings target for PECO is 68,693 MWh. Figure 2-5 compares the PSA+CO performance to date for the G/E/NP customer segment to the Phase III savings target. Based on the latest available information, PECO has achieved 17.3% ¹⁰ of the Phase III G/E/NP energy savings target.

Savings Total

⁸ This does not include Phase II carryover savings which are currently under review.

⁹ This does not include Phase II carryover savings which are currently under review.

This does not include Phase II carryover savings which are currently under review.



Figure 2-5. EE&C Plan Performance Against Phase III G/E/NP Compliance Target¹¹

80000 □ Phase III Compliance Target 70000 **PYRTD** Energy Savings (MWh) 60000 50000 40000 68,693 30000 20000 10000 11,865 0 Phase III Compliance Target **Progress Toward Compliance Target**

Savings Total

Sources: SIDS database, CSP tracking data.

2.3 Phase III DR Achievements to Date

The Phase III DR performance target for PECO is 161 MW. Compliance targets for DR programs are based on average performance across events and are established at the system level, which means the load reductions measured at the customer meter must be escalated to reflect transmission and distribution losses.

Act 129 DR events are triggered by PJM's day-ahead load forecast. When the day-ahead forecast is above 96% of the peak load forecast for the year, a DR event is initiated for the following day.

Phase III DR programs will begin operating in PY9. Their performance targets and achievements will be reported in this section of next year's report.

2.4 Phase III Performance by Customer Segment

Table 2-1 presents the participation, savings, and spending by customer sector for PY8. The residential, small commercial and industrial (C&I), and large C&I sectors are defined by EDC tariff, and the residential low-income and G/E/NP customer segment carve-outs are defined by statute (66 Pa. C.S. § 2806.1). The residential low-income segment is a subset of the residential customer class, however, some low-income savings may occur on a small C&I or large C&I meter due to participation of low-income occupants living in multifamily, master-metered buildings. The G/E/NP customer segment will include customers who are part of the small C&I or large C&I rate classes. Table 2-1 represents the cumulative savings, spending, and participation by customer sector, inclusive of all low-income and G/E/NP participation. Table 2-2

¹¹ This does not include Phase II carryover savings which are currently under review.



represents the savings, spending, and participation values for the low-income and G/E/NP customer segment carve-outs only.

Table 2-1. PY8 Summary Statistics by Customer Segment

	Parameter					
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)	
Residential	1,246,475	167,460	13.9	0.0	8,023	
Small C&I	2,466	18,103	3.0	0.0	779	
Large C&I	170	25,969	3.9	0.0	1,014	
Total	1,249,111	211,532	20.8	0.0	9,817	

Sources: SIDS database, CSP tracking data.

Table 2-2. PY8 Summary Statistics by Carve-Out

_			Parameter		
Carve-Out	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Low-Income	64,385	19,865	2.2	0.0	350
G/E/NP	86	11,865	1.9	0.0	555

Sources: SIDS database, CSP tracking data.

Table 2-3 and Table 2-4 summarize plan performance by sector and customer segment carve-outs since the beginning of Phase III.

Table 2-3. Phase III Summary Statistics by Customer Segment

		Parameter					
Customer Segment	No. of Participants	PSA MWh	PSA MW (EE)	PSA MW (DR)	Incentives (\$1,000)		
Residential	1,246,475	167,460	13.9	0.0	8,023		
Small C&I	2,466	18,103	3.0	0.0	779		
Large C&I	170	25,969	3.9	0.0	1,014		
Total	1,249,111	211,532	20.8	0.0	9,817		



Table 2-4. Phase III Summary Statistics by Carve-Out

	·		Parameter		
Carve-Out	No. of Participants	RTD MWh	RTD MW (EE)	VTD MW (DR)	Incentives (\$1,000)
Low-Income	64,385	19,865	2.2	0.0	350
G/E/NP	86	11,865	1.9	0.0	555

Sources: SIDS database, CSP tracking data.

2.4.1 Residential EE Program

PECO designed the Residential EE Program to offer residential customers opportunities to save energy across all their electric end uses, and to market those opportunities in ways that minimize lost savings opportunities. The solutions in the Residential EE Program include approaches that cut across major channels for communicating with customers or trade allies and reflect the various ways a customer may take advantage of the EE opportunities available. Five solutions and one targeted market segment make up the Residential EE Program: Lighting, Appliances, & HVAC Solution, Appliance Recycling Solution, Whole Home Solution, New Construction Solution, Behavioral Solution, and the multifamily targeted market segment.

The residential non low-income customer segment is a subset of the residential customer class. However, some Residential EE Program savings may occur in the small C&I or large C&I customer sectors due to customers on small C&I or large C&I meters participating in a solution within the Residential EE Program, such as residential occupants living in multifamily, master-metered buildings that recycle an appliance. Table 2-5 shows the combined program achievements of these solutions by customer sector, inclusive of all low-income and G/E/NP participation. Table 2-6 shows the combined program achievements of these solutions for the low-income and G/E/NP customer segment carve-outs only. Detailed performance of the Residential EE Program solutions can be found in Appendix A.2.

Table 2-5. PY8 Residential EE Program by Customer Segment

		Parameter					
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
Residential	1,120,660	147,799	11.7	0.0	4,668		
Small C&I	214	116	0.0	0.0	7		
Large C&I	11	4	0.0	0.0	0		
Total	1,120,885	147,919	11.7	0.0	4,675		



Table 2-6. PY8 Residential EE Program by Carve-Out

			Parameter	-	
Carve-Out	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Low-Income	0	0	0.0	0.0	0
G/E/NP	0	0	0.0	0.0	0

Sources: SIDS database, CSP tracking data.

2.4.2 Low-Income EE Program

The PECO Low-Income EE Program is designed to offer PECO's income-qualified customers opportunities to save energy across all their electric end uses. The Low-Income EE Program encompasses two solutions to achieve this goal: Lighting Solution and Whole Home Solution.

The residential low-income customer segment is a subset of the residential customer class; however, some low-income savings may occur on a small or large C&I meter due to participation of low-income occupants living in multifamily, master-metered buildings. Table 2-7 shows the combined program achievement of these solutions by customer sector, inclusive of all low-income and G/E/NP participation.

Table 2-7. PY8 Low-Income EE Program by Customer Segment

	Parameter					
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)	
Residential	64,375	19,661	2.2	0.0	350	
Small C&I	10	204	0.0	0.0	0	
Large C&I	0	0	0.0	0.0	0	
Total	64,385	19,865	2.2	0.0	350	

Sources: SIDS database, CSP tracking data.

PECO takes actions to limit non low-income participation in the Low-Income Lighting Solution by focusing on stores likely to have a high percentage of income-qualified patrons; however, some participation from non-income-qualified customers can (and does) happen—because any customer can purchase a bulb in the stores where low-income specific incentives are offered. Per the PY8 evaluation plan, Navigant will identify the portion of savings coming from non low-income participants through evaluation efforts and remove them from the verified low-income carve-out savings. Savings from these customers will not count toward the low-income carve-out. Table 2-8 shows the combined program achievements of the Low-Income EE Program solutions for the low-income and G/E/NP customer segment carve-outs only. Detailed performance of the Low-Income EE Program solutions can be found in Appendix A.3.



Table 2-8. PY8 Low-Income EE Program by Carve-Out

	Parameter				
Carve-Out	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Low-Income	64,385	19,865	2.2	0.0	350
G/E/NP	0	0	0.0	0.0	0

Sources: SIDS database, CSP tracking data.

The eligible population for the PECO Low-Income EE Program is PECO residential electric customers with a household income of less than or equal to 150% of the federal poverty level. PECO also specifically targets electric customers with a household income of less than or equal to 50% of the federal poverty level. Table 2-9 shows savings from households earning less than 50% of the federal poverty level.

Table 2-9. PY8 Low-Income EE Program Customer Segment Supplement

	Parameter						
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
Residential Low-Income 0-50% ^a	1,939	2,678	0.3	0.0	1		
Total ^a	1,939	2,678	0.3	0.0	1		

^a The incentive spending shown in this table does not include direct-install costs due to the Act 129 definition of incentive spending. The total Low-Income EE Program spending on the residential low-income customers with household incomes of less than or equal to 50% of the federal poverty level is \$434,000.

Sources: SIDS database, CSP tracking data.

2.4.3 Small C&I EE Program

The purpose of the Small C&I EE Program is to offer a comprehensive and cross-cutting array of opportunities to assist small C&I customers in reducing their energy consumption and costs. The program encompasses a variety of energy solutions and measures to achieve this goal. The Small C&I EE Program is made up of three solutions and two targeted market segments: Equipment and Systems Solution, New Construction Solution, Whole Building Solution, data centers targeted market segment, and the multifamily targeted market segment. PECO's EE&C Plan also includes a Small C&I Behavioral Solution which has not yet launched in Phase III. Several solutions cut across multiple programs.

Table 2-10 shows the combined program achievement of these solutions by customer sector, inclusive of all low-income and G/E/NP participation. Table 2-11 shows the combined program achievements of these solutions for the low-income and G/E/NP customer segment carve-outs only. Detailed performance of the Small C&I EE Program solutions and targeted market segments can be found in Appendix A.4.



Table 2-10. PY8 Small C&I EE Program by Customer Segment

Customer Segment					
	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Residential	0	0	0.0	0.0	0
Small C&I	656	17,783	2.9	0.0	650
Large C&I	0	0	0.0	0.0	0
Total	656	17,783	2.9	0.0	650

Sources: SIDS database, CSP tracking data.

Table 2-11. PY8 Small C&I EE Program by Carve-Out

Carve-Out	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Low-Income	0	0	0.0	0.0	0
G/E/NP	44	1,674	0.3	0.0	84

Sources: SIDS database, CSP tracking data.

2.4.4 Large C&I EE Program

The Large C&I EE Program is designed to offer PECO's large C&I customers opportunities to save energy across all their electric end uses and to market those opportunities in a way that minimizes lost savings opportunities. The EE solutions in the Large C&I EE Program include approaches that cut across major channels for communicating with customers or trade allies and reflect the various ways a large business customer may take advantage of the EE opportunities available. The program encompasses a variety of energy solutions and measures to achieve this goal. Two solutions and two targeted market segments make up the Large C&I EE Program: Equipment and Systems Solution, New Construction Solution, data centers targeted market segment, and multifamily targeted market segment.

Table 2-12 shows the combined program achievements of these solutions by customer sector, inclusive of all low-income and G/E/NP participation. Table 2-13 shows the combined program achievements of these solutions for the low-income and G/E/NP customer segment carve-outs only. Detailed performance of the Large C&I EE Program solutions and targeted market segments can be found in Appendix A.5.

Table 2-12. PY8 Large C&I EE Program by Customer Segment

	Parameter						
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
Residential	0	0	0.0	0.0	0		
Small C&I	0	0	0.0	0.0	0		
Large C&I	159	25,965	3.9	0.0	1,014		
Total	159	25,965	3.9	0.0	1,014		



Table 2-13. PY8 Large C&I EE Program by Carve-Out

			Parameter		
Carve-Out	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Low-income	0	0	0.0	0.0	0
G/E/NP	42	10,191	1.6	0.0	471

Sources: SIDS database, CSP tracking data.

2.4.5 Combined Heat and Power Program

PECO designed the Combined Heat and Power (CHP) Program to influence customer behavior and purchasing decisions. The program encourages the installation of CHP projects that maximize operational savings and minimize operational and maintenance costs. The CHP Program makes project economics attractive by providing incentives and technical assistance to customers who install CHP technologies to reduce facility energy use. The eligible population for the CHP Program is all PECO small C&I and large C&I rate class electric customers, including customers in the G/E/NP sector and those who reside in master-metered multifamily buildings. While applicable to a wide swath of customers, the program encompasses a single energy solution: the CHP Solution. Table 2-14 shows the combined program achievements by customer sector, inclusive of all low-income and G/E/NP participation. Table 2-15 shows the combined program achievements for the low-income and G/E/NP customer segment carve-outs only.

Table 2-14. PY8 CHP EE Program by Customer Segment

Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Residential	0	0	0.0	0.0	0
Small C&I	0	0	0.0	0.0	0
Large C&I	0	0	0.0	0.0	0
Total	0	0	0.0	0.0	0

Sources: SIDS database, CSP tracking data.

Table 2-15. PY8 CHP EE Program by Carve-Out

:	Parameter							
Carve-Out	No. of Participants	PYRTD MWh/year	PYRTD MW/year (EE)	PYVTD MW (DR)	Incentives (\$1,000)			
Low-Income	0	0	0.0	0.0	0			
G/E/NP	0	0	0.0	0.0	0			

Sources: SIDS database, CSP tracking data.

2.4.6 Residential DR Program

The PECO Residential DR Program encompasses opportunities designed to engage customers in demand reduction. The eligible population and target markets for the PECO Residential DR Program are

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all PECO residential electric customers. The program encompasses three solutions: Residential Direct Load Control (DLC) Solution, Smart Thermostat for DR Savings Solution, and Behavioral DR Savings Solution. Only the Residential DLC Solution is currently active.

Table 2-16 shows the combined program achievements through the Residential DLC Solution by customer sector, inclusive of all low-income and G/E/NP participation. This program will begin running full events in PY9 and will report findings in PY9.

Table 2-16. PY8 Residential DR Program by Customer Segment

Customer Segment	Parameter						
	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
Residential	61,440	0	0.0	0.0	3,005		
Small C&I	0	0	0.0	0.0	0		
Large C&I	0	0	0.0	0.0	0		
Total	61,440	0	0.0	0.0	3,005		

Sources: SIDS database, CSP tracking data.

2.4.7 Small C&I DR Program

PECO designed the PECO Small C&I DR Program to engage customers in demand reduction through DLC of major electrical end-use equipment during designated peak load hours. The eligible population and target markets for the Small C&I DR Program are all PECO small C&I customers, which includes customers in the G/E/NP sector. The program encompasses a single solution: DLC Solution. This program will begin running full events in PY9 and will report findings in PY9.

Table 2-17 shows the combined program achievements through the Small C&I DLC Solution by customer sector, inclusive of all low-income and G/E/NP participation.

Table 2-17. PY8 Small C&I DR Program by Customer Segment

	Parameter						
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
Residential	0	0	0.0	0.0	0		
Small C&I	1,586	0	0.0	0.0	122		
Large C&I	0	0	0.0	0.0	0		
Total	1,586	0	0.0	0.0	122		

Sources: SIDS database, CSP tracking data.

2.4.8 Large C&I DR Program

PECO designed the Large C&I DR Program to engage customers in demand reduction through DR aggregation across multiple customers. The eligible population and target markets for the PECO Large C&I DR Program are all PECO large C&I electric customers, including those in the G/E/NP sector. The



program encompasses a single solution: Demand Response Aggregator (DRA) Solution. This program will begin in PY9 and will report findings in PY9.

Table 2-18 shows the combined program achievements through the DRA Solution by customer sector, inclusive of all low-income and G/E/NP participation.

Table 2-18. PY8 Large C&I DR Program by Customer Segment

	Parameter					
Customer Segment	No. of Participants	PYRTD MWh	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)	
Residential	0	0	0.0	0.0	0	
Small C&I	0	0	0.0	0.0	0	
Large C&I	0	0	0.0	0.0	0	
Total	0	0	0.0	0.0	0	



3. UPDATES AND FINDINGS

3.1 Implementation Updates and Findings

This section summarizes PECO's EE&C Plan and program implementation updates, as well as findings available at this time.

- Residential EE Program: Ecova, ARCA, CLEAResult, Performance Systems Development (PSD), Opower, and Franklin all implement projects across the program's five solutions and one targeted market segment:
 - Opower implements the Behavioral Solution and has been active throughout PY8. No Behavioral Solution savings were reported within the Q1-Q2 PY8 Semi-Annual report because savings are not calculated until the end of the year for this solution. Total PY8 savings from the Behavioral Solution are presented here and represent over 40% of Residential EE Program PY8 reported savings.
 - The Lighting, Appliance, and HVAC Solution implemented by Ecova continues to represent the largest portion (48%) of the Residential EE Program's reported savings, with the majority of savings originating from LED measures. Non-lighting measures, including appliances and HVAC, represent 7% of solution savings.
 - The Appliance Recycling Solution increased rebates for refrigerators and freezers in April from \$40 to \$50 per unit. The solution also held a 1-day room AC drop-off event on June 17, 2017 for customers.
 - The Whole Home Solution offered participants a low cost home energy assessment that included direct installation of a range of deemed measures, including lighting, water conservation, smart strips, etc. In addition, the Whole Home Solution provided incentives for ceiling, attic, and wall insulation, duct sealing, and mechanical equipment (e.g., fuel switching from electric heat to natural gas, heat pump water heaters).
 - o In PY8, all multifamily targeted market segment savings originated from direct install measures, including LEDs, showerheads, and aerators. The completed project savings for master-metered multifamily facilities are allocated to the Small C&I EE and Large C&I EE Programs.
 - The Residential New Construction Solution's PY8 activities represent the smallest share of PY8 Residential EE Program savings; however, Phase III design changes allowed the solution to exceed the previous Phase II total participation goal in only the first 9 months of Phase III. This participation increase was largely due to an influx of ENERGY STAR® new construction multifamily units. Note that these are not related to the retrofit activities of the multifamily targeted market segment.
- Low-Income EE Program: ARCA and CMC are implementing the Low-Income Whole Home Solution in Phase III, while Ecova is implementing the new Low-Income Lighting Solution. The Whole Home Solution includes PECO's Free Home Energy Check Up with free measure direct installation services, low-income multifamily building audit and direct installation, free energy efficient light bulbs, and other measures such as power strips, LED night lights, and water heaters, to Low-Income Usage Reduction Program participants, and product giveaways at events targeting low-income households.



- Small C&I EE Program: ICF, Franklin, and SmartWatt have implemented projects in three of the program solutions and in one targeted customer segment: New Construction Solution, Equipment and Systems Solution, Whole Building Solution, and multifamily targeted market segment. There is no participation to date in the data centers targeted market segment, though ICF is planning new strategies to encourage more recruitment and engagement. ICF has recruited 434 Equipment and Systems projects for the Equipment & Systems Solution and 23 projects for the New Construction Solution, including C&I and G/E/NP projects. Implementation of projects in the multifamily targeted market segment and Whole Building Solution are also underway, with numerous PY8 projects implemented. The multifamily targeted market segment had 63 Small C&I projects in PY8, while the Whole Building Solution had 136. The Behavioral Solution had no activity in PY8 as it is not currently active.
- Large C&I EE Program: ICF and Franklin have implemented projects in two of the program's solutions and one targeted market segment including the Equipment and Systems Solution, New Construction Solution, and multifamily targeted market segment. ICF did not implement any data center projects this program year, but is focusing on increasing implementation in PY9. Equipment and Systems constituted 79% of the program savings while New Construction reported 16%, and the multifamily targeted market segment accounted for the remaining 5%. Lighting projects resulted in approximately 78% of the program energy savings compared to the measure mix goal of only 30%. PECO had 122 Equipment and Systems participants, 21 New Construction participants, and 16 multifamily participants.
- CHP Program: Although there has been a slight delay in transitioning over to Phase III, PECO
 completed the new CHP Program material and enrollment processes. PECO began accepting
 and reviewing applications in Q4 and expects to have completed projects in PY9. Due to the
 long lead time on CHP projects there were no completed projects in PY8.
- Residential DR Program: The Residential DR program ran two DLC test events during the summer of 2016, on June 23 and July 7. As in years past, the program is implemented by Comverge. The summer DR events had nearly 63,000 residential participants. This year, and for the remainder of Phase III, the incentive is \$40 per DLC unit per year. As these events were considered test events and PECO did not have savings targets for PY8, PECO will not be reporting any savings from this program for PY8.
- Small C&I DR Program: The Small C&I DR program ran two DLC test events during the summer of 2016, on June 23 and July 7. As in years past, this program is implemented by Comverge. The summer DR events had nearly 1,700 commercial participants. This year, and for the remainder of Phase III, the incentive is \$40 per thermostat per year. As these events were considered test events and PECO did not have savings targets for PY8, PECO will not be reporting any savings from this program for PY8.
- Large C&I DR Program: The program will be implemented by two CSPs: CPower and EnerNOC. As planned, this program will commence operation in Q1 of PY9.

3.2 Evaluation Updates and Findings

Navigant has written, received SWE comments, and revised the Phase III evaluation plan and sampling plan for each program and solution. The team has also interviewed PECO staff and CSPs, reviewed program materials, program tracking databases, and engineering files for each solution. These activities inform the design of participant surveys exploring customer satisfaction and experience, and confirm measure installations for specific solutions per the evaluation plan. Navigant is in the middle of impact evaluations for all the solutions. Navigant's progress on each program and solution is summarized below.

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- Residential EE Program: The team completed 852 in-store intercepts to inform the Lighting,
 Appliance, and HVAC Solution's evaluation, which includes analyses for impacts, cross-sector
 sales estimates, NTG ratios, and process findings. The team is processing the data now and
 expects to be complete by the end of July. Impact evaluations for all solutions are ongoing and
 targeted process evaluation is being conducted for specific solutions per the evaluation plan.
- Low-Income EE Program: Navigant is actively collaborating with PECO to analyze household
 incomes in the geographic regions surrounding PECO's participating Lighting Solution retailers.
 This will enable Navigant to estimate participant incomes in conformance with the PECO lowincome targets. Navigant is also designing the survey for Whole Home Solution participants to
 explore customer satisfaction and experience and to confirm measure installation. Impact
 evaluations for all solutions are ongoing.
- Small C&I EE Program: Navigant developed customer satisfaction questions to include in onsite and phone verification reviews to gauge customer experience with the solutions. Impact evaluations for all solutions are ongoing. In the next several months, Navigant will continue to review the solution measure data, call and visit sampled project sites, and continue the evaluation process for PY8.
- Large C&I EE Program: Navigant developed customer satisfaction questions to include in onsite
 and phone verification reviews to gauge customer experience with the solutions. Navigant has
 also been working with ICF to review large and complex projects before incentives will be
 reserved. Impact evaluations for all solutions are ongoing. In the next several months, Navigant
 will continue to review the solution measure data, call and visit sampled project sites, and
 continue the evaluation process for PY8.
- CHP Program: The CHP Program did not have any participants in PY8. Navigant performed a review of the new program materials and provided feedback on the new enrollment strategy.
- Residential DR Program: The team received interval data for program participants and
 nonparticipants and completed a test analysis using a matching algorithm and regression to
 assess program impacts. Navigant has developed a post-event survey for PY9 in order to gauge
 customer awareness, satisfaction, and comfort during events.
- Small C&I DR Program: The team received interval data for program and completed a test
 analysis using a within-subjects regression to assess program impacts. Navigant has developed
 a post-event survey for PY9 in order to gauge customer awareness, satisfaction, and comfort
 during events.
- Large C&I DR Program: The team received sample data from PECO and has begun to build a tool to prepare for the PY9 impact analysis.



4. SUMMARY OF PARTICIPATION BY PROGRAM

Table 4-1 provides the current participation totals for PY8 and Phase III. Solution-level participation is captured in Appendix A. Certain programs define participation differently depending on the program delivery channel and data tracking practices.

Table 4-1. EE&C Plan Participation by Program

Program	PYTD Participation	P3TD Participation
Residential EE	1,120,885	1,120,885
Low-Income EE	64,385	64,385
Small C&I EE	656	656
Large C&I EE	159	159
CHP	0	0
Residential DR	61,440	61,440
Smali C&I DR	1,586	1,586
Large C&I DR	0	0
Portfolio Total	1,249,111	1,249,111

Sources: SIDS database, CSP tracking data.

Five solutions and one targeted market segment make up the Residential EE Program: Lighting, Appliance, and HVAC Solution, Appliance Recycling Solution, Whole Home Solution, New Construction Solution, Behavioral Solution, and the multifamily targeted market segment. PECO has defined participation counts in each solution as follows:

- For Lighting, Appliance, and HVAC, upstream lighting participation is defined as the sum of the stock keeping unit (SKU) sales. A SKU describes a sold lighting product that can be a single bulb or a multi-pack of bulbs. For the appliance and HVAC participants, participation is defined as the total number of non-adjusted records in PECO's tracking data. A record may represent one or more rebated items (e.g., a single participant purchasing multiple thermostats during the same purchase event).
- For Appliance Recycling, a participant is a customer who schedules a pickup for one or more
 units. If the same customer initiates multiple pickup orders during the year, each order is counted
 as an individual participant. However, if a customer initiates more than one order in the same day
 it counts as a single participant.
- For Residential Whole Home, a participant is considered a unique project number for nonadjusted records with a project type that does not include "Other Installations" or "CAC Other Installations."
- For Residential New Construction, a participant is a new home.
- For Behavioral, a participant is a utility account included in the program's treatment group.
- For multifamily targeted market segment, a participant is a unique project number.

Two solutions make up the Low-Income EE Program: Lighting Solution and Whole Home Solution. Low-income participants are those participants with incomes at or below 150% of the Federal Poverty Level. PECO has defined participation counts in each solution as follows:

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- For Lighting, participation is defined as a package of one or more light bulbs identified by a unique SKU¹² number.
- For Low-Income Whole Home, a participant is considered:
 - A unique audit number (for both multifamily and single family audits).
 - A low-income appliance recycling customer who schedules a pickup for one or more units. If the same customer initiates multiple pickup orders during the year, each order is counted as an individual participant. However, if a customer initiates more than one order in the same day it counts as a single participant.
 - Product giveaways are also part of the Whole Home Solution but are not included in the participant count.

Four solutions and two targeted market segments make up the Small C&I EE Program: Equipment and Systems Solution, Whole Building Solution, Behavioral Solution, New Construction Solution, data centers targeted market segment, and multifamily targeted market segment. The Behavioral Solution is not currently active. PECO has defined participation counts in each active solution as follows:

- For Small C&I Equipment and Systems, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.
- For Small C&I Whole Building, participation is defined as an activity with a unique project number.
 More than one measure per participant is permitted, with the impact sample defined on the project level.
- For Small C&I New Construction, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.
- For data centers targeted market segment, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.
- For multifamily targeted market segment, participation is defined as an activity with a unique
 account ID (meter number). More than one measure per participant is permitted, with the impact
 sample defined on the meter level.

Two solutions and two targeted market segments make up the Large C&I EE Program: Equipment and Systems Solution, New Construction Solution, data centers targeted market segment, and multifamily targeted market segment. PECO has defined participation counts in each solution as follows:

- For the Large C&I Equipment and Systems, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.
- For the Large C&I New Construction, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.

 $^{^{12}}$ A SKU describes a sold lighting product that can be a single bulb or a multi-pack of bulbs.

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- For the data center targeted market segment, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.
- For the multifamily targeted market segment, participation is defined as an activity with a unique project number. More than one measure per participant is permitted, with the impact sample defined on the project level.

The CHP Program consists of the CHP Solution only. PECO has defined participation counts in the solution as follows:

For CHP, participation is defined as an activity with a unique project number.

Three solutions make up the Residential DR Program; however, only the DLC Solution is currently active. PECO has defined participation counts in the solution as follows:

For Residential DLC, a participant is defined as a unique account number where device status is
install or swap, and measure code is CACS (central air conditioner switch). One participant may
have more than one DLC device installed at the home. The categories not included in the
participant count include disconnect, opt-out, and removal.

The Small C&I DR Program consists of the Small C&I DLC Solution. PECO has defined participation counts in the solution as follows:

For Small C&I DLC, a participant is defined as a unique account number where device status is
install or swap, and measure code is PCT (program controlled thermostat). One participant may
have more than one DLC device installed on the premise. The categories not included in the
participant count include disconnect, opt-out, and removal.

The Large C&I DR Program consists of the DRA Solution. PECO has defined participation counts in the solution as follows:

For DRA, the business rule for participation has not yet been defined.



5. SUMMARY OF ENERGY IMPACTS BY PROGRAM

Figure 5-1 presents a summary of the PYTD reported gross energy savings by program for PY8. The energy impacts in this report are presented at the meter level and do not reflect adjustments for transmission and distribution losses.

Figure 5-1. PYTD Reported Gross Energy Savings by Program

		Energy Savings (MWh)									
			50,000	100,000	150,000	200,000	250,000				
	Large C&I DR										
	Small C&I DR										
	Residential DR										
Proç	СНР										
Program	Large C&I EE										
	Small C&I EE										
	Low-Income EE										
	Residential EE										

Sources: SIDS database, CSP tracking data.

Figure 5-2 presents a summary of the PSA gross energy savings by program for Phase III of Act 129. PSA savings include verified gross savings from previous program years and the PYTD savings from the current program year.



Figure 5-2. PSA Energy Savings by Program for Phase III

				Energy S	Savings (MV	Vh)		
		-	50,000	100	,000	150,000	200,000	
	Large C&I DR							
	Small C&I DR							
	Residential DR							
Prog	CHP							□PY8
Programs	Large C&I EE							
	Small C&I EE							
	Low-Income EE							
	Residential EE				-			

Sources: SIDS database, CSP tracking data.

Table 5-1 presents a summary of energy impacts by program through the current reporting period. Appendix A presents the solution-level savings.

Table 5-1. Energy Savings by Program (MWh)

Program	PYRTD	RTD	VTD	PSA
Residential EE	147,919	147,919	0	147,919
Low-Income EE	19,865	19,865	0	19,865
Small C&I EE	17,783	17,783	0	17,783
Large C&I EE	25,965	25,965	0	25,965
CHP	0	0	0	0
Residential DR	0	0	0	0
Small C&I DR	0	0	0	0
Large C&I DR	0	0	0	0
Portfolio Total	211,532	211,532	0	211,532



6. SUMMARY OF DEMAND IMPACTS BY PROGRAM

PECO's Phase III EE&C programs achieve peak demand reductions primarily in two ways. The first is through coincident reductions from EE measures and the second is through dedicated DR offerings that exclusively target temporary demand reductions on peak days. EE reductions coincident with system peak hours are reported and used in the calculation of benefits in the TRC test but do not contribute to Phase III peak demand reduction compliance goals. Phase III peak demand reduction targets are exclusive to DR programs.

The two types of peak demand reduction savings are also treated differently for reporting purposes. Peak demand reductions from EE are generally additive across program years, meaning that the P3TD savings reflect the sum of the first-year savings in each program year. Conversely, DR goals are based on average portfolio impacts across all events, so cumulative DR performance is expressed as the average performance of each of the DR events called in Phase III to date. Because of these differences, demand impacts from EE and DR are reported separately in Sections 6.1 and 6.2.

6.1 Energy Efficiency

Act 129 defines peak demand savings from EE as the average expected reduction in electric demand from 2:00 p.m. to 6:00 p.m. EDT on non-holiday weekdays from June to August. The peak demand impacts from EE in this report are presented at the meter level and do not reflect adjustments for transmission and distribution losses. Figure 6-1 presents a summary of the PYRTD reported gross peak demand savings by EE program for PY8.

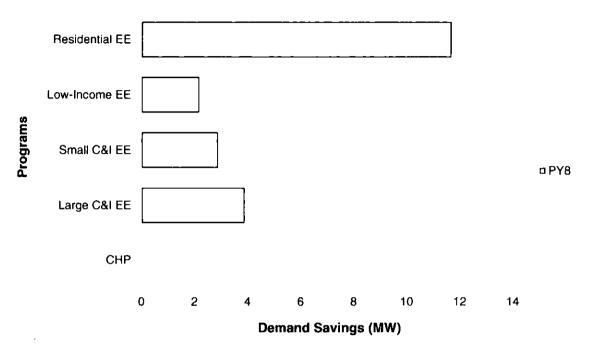
Figure 6-1. PYRTD Gross Demand Savings by EE Program

				I	Demand S	avings (N	ΛW)		
		0	2	4	6	8	10	12	14
	СНР								
	Large C&I EE								
Programs	Small C&I EE								
(0	Low-Income EE								
	Residential EE								



Figure 6-2 presents a summary of the PSA gross demand savings by EE program for Phase III of Act 129.

Figure 6-2. PSA Demand Savings by EE Program for Phase III



Sources: SIDS database, CSP tracking data.

Table 6-1 presents a summary of the peak demand impacts by EE program through the current reporting period. Appendix A presents the solution-level savings.

Table 6-1. Peak Demand Savings by EE Program (MW)

Program	PYRTD	RTD	VTD	PSA
Residential EE	11.7	11.7	0.0	11.7
Low-Income EE	2.2	2.2	0.0	2.2
Small C&I EE	2.9	2.9	0.0	2.9
Large C&I EE	3.9	3.9	0.0	3.9
CHP	0.0	0.0	0.0	0.0
Portfolio Total	20.8	20.8	0.0	20.8



6.2 Demand Response

Act 129 defines peak demand savings from DR as the average reduction in electric demand during the hours when a DR event is initiated. Act 129 peak demand reduction targets were set for PY9 through PY12; there is no PY8 peak demand reduction target. Phase III DR events are initiated according to the following guidelines:

- 1. Curtailment events shall be limited to the months of June through September.
- Curtailment events shall be called for the first 6 days of each program year (starting in PY9) in which the peak hour of PJM's day-ahead forecast for the PJM regional transmission organization (RTO) is greater than 96% of the PJM RTO summer peak demand forecast for the months of June through September.
- 3. Each curtailment event shall last 4 hours.
- 4. Each curtailment event shall be called such that it will occur during the day's forecasted peak hour(s) above 96% of PJM's RTO summer peak demand forecast.
- 5. Once six curtailment events have been called in a program year, the peak demand reduction program shall be suspended for that program year.

The peak demand impacts from DR in this report are presented at the system level and reflect adjustments to account for transmission and distribution losses. The PA 2016 TRM specified the transmission and distribution line loss adjustment factors that each EDC must use for Act 129 Phase III.¹³ PECO uses the following line loss percentages/multipliers by sector.

- Residential = 7.4% or 1.0799
- Small C&I = 7.4% or 1.0799
- Large C&I = 7.4% or 1.0799

Table 6-2 summarizes the PYVTD and VTD demand reductions for each of the DR programs in PECO's EE&C Plan and for the DR portfolio as a whole. VTD demand reductions are the average performance across all Phase III DR events independent of how many events occurred in a given program year. The relative precision columns in Table 6-2 indicate the margin of error (at the 90% confidence interval) around the PYVTD and VTD demand reductions.

¹³ 2016 PA TRM. Pennsylvania Public Utility Commission Technical Reference Manual; State of Pennsylvania Act 129 Energy Efficiency and Conservation Program and Act 213 Alternative Energy Portfolio Standards. Section 1.14 Transmission and Distribution System Losses. June 2016, Errata Update February 2017.



Table 6-2. Verified Gross DR Impacts by Program

Program	PYVTD Gross MW	Relative Precision (90%)	VTD Gross MW	Relative Precision (90%)
Residential DR	*	*	*	*
Small C&I DR	*	*	*	*
Large C&I DR	*	*	*	*
Total	*	*	*	*

^{*} PECO is not claiming any DR savings in PY8, as only test events were run and there is no PY8 DR target. Sources: SIDS database, CSP tracking data.

7. SUMMARY OF FINANCES

Section 7 provides an overview of the expenditures associated with PECO's portfolio and the recovery of those costs from ratepayers.

7.1 Program Financials

Program-specific and portfolio total finances for PY8 are shown in Table 7-1. The columns in Table 7-1 and Table 7-2 are adapted from the Direct Program Cost categories in the Commission's EE&C Plan template¹⁴ for Phase III. EDC Materials, Labor, and Administration includes costs associated with an EDC's own employees. ICSP Materials, Labor, and Administration includes both the program implementation contractor and the costs of any other outside vendors EDCs employ to support program delivery. Appendix A presents the solution-level spending.

Table 7-1. PYTD Financials

Program	Incentives to Participants and Trade Allies (\$1,000)	EDC Materials, Labor, and Administration (\$1,000)	ICSP Materials, Labor, and Administration (\$1,000)	EM&V (\$1,000)	Total Cost (\$1,000)
Residential EE	4,675	5,459	9,868	0	20,002
Low Income EE	350	75	6,590	0	7,015
Small CI EE	650	2,216	2,519	0	5,385
Large CI EE	1,014	131	3,913	0	5,057
CHP	0	0	15	0	15
Residential DR	3,005	31ª	917	0	3,953
Small C&I DR	122	2	-18ª	0	106°
Large C&I DR	0	61	1,680 ^b	0	1,742
Common Portfol	io Costs ^c				8,952
Portfolio Total	9,817	7,974	25,483	0	52,226
SWE Costs ^d	N/A	N/A	N/A	N/A	700
Total	9,817	7,974	25,483	0	52,926

^a This value was adjusted down from the value presented in the January Semi-Annual report due to reallocations across DR programs.

Sources: SIDS database, CSP tracking data.

Table 7-2 shows program-specific and portfolio total finances since the inception of Phase III.

^b The accounting records were made to account for PECO's payment obligation to both vendors even if no events are called (since program officially starts in PY9).

^c Includes the administrative CSP (rebate processing), tracking system, general administration, and clerical costs, EDC program management, CSP program management, general management, oversight of major accounts, and technical assistance.

^d Statewide evaluation costs are outside of the 2 percent spending cap.

¹⁴ http://www.puc.pa.gov/pcdocs/1372426.doc Section 10



Table 7-2. Phase III to Date Financials

Program	Incentives to Participants and Trade Allies (\$1,000)	EDC Materials, Labor, and Administration (\$1,000)	ICSP Materials, Labor, and Administration (\$1,000)	EM&V (\$1,000)	Total Cost (\$1,000)
Residential EE	4,675	5,459	9,868	0	20,002
Low Income EE	350	7 5	6,590	0	7,015
Small CI EE	650	2,216	2,519	0	5,385
Large CI EE	1,014	131	3,913	0	5,057
CHP	0	0	15	0	15
Residential DR	3,005	31	917	0	3,953
Small C&I DR	122	2	-18	0	106
Large C&I DR	0	61	1,680	0	1,742
Common Portfolio	Costs ^a				8,952
Portfolio Total	9,817	7,974	25,483	0	52,226
SWE Costs ^b	N/A	N/A	N/A	N/A	700
Total	9,817	7,974	25,483	0	52,926

^a Includes the administrative CSP (rebate processing), tracking system, general administration, and clerical costs, EDC program management, CSP program management, general management, oversight of major accounts, and technical assistance.

Cost-effectiveness testing for Act 129 EE&C programs is performed using the TRC test. Benefit-cost modeling is conducted annually using verified gross and verified net savings once the results of the independent impact evaluation are completed. TRC test results for PY8 will be presented in the final annual report to the PA PUC on November 15, 2017 along with a more granular breakdown of portfolio costs.

7.2 Cost-Recovery

Act 129 allows Pennsylvania EDCs to recover EE&C Plan costs through a cost-recovery mechanism. PECO's cost-recovery charges are organized separately by four customer sectors to ensure that the electric rate classes that finance the programs are the rate classes that receive the direct energy and conservation benefits. Cost-recovery is necessarily tied to the way customers are metered and charged for electric service. Readers should be mindful of the differences between Table 7-3 and Section 2.4. For example, the low-income customer segment is a subset of PECO's residential tariff(s) and may also include low-income customers in master-metered, multifamily facilities and is therefore not listed in Table 7-3.

b Statewide evaluation costs are outside of the 2 percent spending cap. Sources: SIDS database, CSP tracking data.



Table 7-3. EE&C Plan Expenditures by Cost-Recovery Category¹⁵

Cost-Recovery Sector	Rate Classes Included	PYTD Spending (\$1,000)	P3TD Spending (\$1,000)
Residential	R, RH & CAP	35,450	35,450
Small C&I	GS	7,036	7,036
Large C&I	PD, HT & EP	9,713	9,713
Municipal	SLE, AL & TLCL	28	28
Portfolio Total		52,226	52,226

Source: PECO

¹⁵ SWE costs not included.



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APPENDIX A. DETAILED CUSTOMER SEGMENT AND CARVE-OUT TABLES

The following tables provide additional detail of the portfolio, program, and solution level performance by customer segments and savings carveouts. These tables provide additional detail beyond that shown in the previous sections. PECO categorizes projects by customer segment, sector
carve-out, solution, and program to ensure each project is properly tracked. These tables are provided to show where there is overlap in
participation between the various customer segments (residential, small C&I, and large C&I) and the carveouts (low-income and G/E/NP) because
these are not mutually exclusive categories. This cannot be easily shown in the main summary tables without causing confusion.

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Semi-Annual Report to the Pennsylvania Public Utility Commission

A.1 Portfolio

Table A-1. PY8 Portfolio Statistics by Customer Segment and Carve-Out

Oustomer					Parameter		
Segment	GEIVO-OUIS		No. of Participants	PYRID MWh/year		PWID MW (DR)	Incentives (\$1,000)
	Non-G/E/NP	Non Low-Income	1,182,100	147,799	11.7	0.0	7,673
	Non-G/E/NP	Low-Income	64,375	19,661	2.2	0.0	350
	C/E/NID	Non Low-Income	0	0	0.0	0.0	0
Residential	G/E/NP	Low-Income		0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	Low-Income Total		19,661	2.2	0.0	350
	Sector Total		1,246,475	167,460	13.9	0.0	8,023
	Non C/F/ND	Non Low-Income	2,412	16,225	2.7	0.0	696
	Non-G/E/NP	Low-Income	10	204	0.0	0.0	0
	G/E/NP	Non Low-Income	44	1,674	0.3	0.0	84
Small C&I	Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		44	1,674	0.3	0.0	84
	Low-Income Total		10	204	0.0	0.0	0
	Sector Total		2,466	18,103	3.0	0.0	779
	Non Low-Income		128	15,778	2.3	0.0	543
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/ND	Non Low-Income	42	10,191	1.6	0.0	471
Large C&I	G/E/NP	Low-Income	0	0	0.0	0.0	$-{0}$
	G/E/NP Total	—	42	10,191	1.6	0.0	471
	Low-Income To	tal	<u> </u>	0	0.0	0.0	<u> </u>
	Sector Total		170	25,969	3.9	0.0	1,014
		Non Low-Income	1,184,640	179,803	16.7	0.0	8,911
	Non-G/E/NP	Low-Income	64,385	19,865	2.2	0.0	350
Total	CIEIND	Non Low-Income	86	11,865	1.9	0.0	555
	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	·	86	11,865	1.9	0.0	555
	Low-Income To	tal	64,385	19,865	2.2	0.0	350
		Total	1,249,111	211,532	20.8	0.0	9,817

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Table A-2. Phase III Portfolio Statistics by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PSA MWh/year	PYRTD MW (EE)	PSA MW (DR)	Incentives (\$1,000)
	Non C/E/ND	Non Low-Income	1,182,100	147,799	11.7	0.0	7,673
	Non-G/E/NP	Low-Income	64,375	19,661	2.2	0.0	350
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
Residential	!	Low-Income	0	0	0.0	0.0	Õ
	G/E/NP Total	G/E/NP Total		Ō	0.0	0.0	
	Low-Income Total		64,375	19,661	2.2	0.0	350
	Sector Total		1,246,475	167,460	13.9	0.0	8,023
	N 0/F/ND	Non Low-Income	2,412	16,225	2.7	0.0	696
	Non-G/E/NP	Low-Income	10	204	0.0	0.0	
	0(5/ND	Non Low-Income	44	1,674	0.3	0.0	84
Small C&I	G/E/NP Low-Income		0		0.0	0.0	0
	G/E/NP Total		44	1,674	0.3	0.0	84
	Low-Income Total		10	204	0.0	0.0	0
	Sector Total		2,466	18,103	3.0	0.0	779
	Non Low-Income		128	15,778	2.3	0.0	543
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0.50.00	Non Low-Income	42	10,191	1.6	0.0	471
_arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
-	G/E/NP Total		42	10,191	1.6	0.0	471
	Low-Income To	otal		0	0.0	0.0	0
	Sector Total		170	25,969	3.9	0.0	1,014
	N 0/5/ND	Non Low-Income	1,184,640	179,803	16.7	0.0	8,911
	Non-G/E/NP	Low-Income	64,385	19,865	2.2	0.0	350
	O/E/ND	Non Low-Income	86	11,865	1.9	0.0	555
Total	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	· 	86	11,865	1.9	0.0	555
	Low-Income To	otal	64,385	19,865	2.2	0.0	350
		Total	1,249,111	211,532	20.8	0.0	9,817

A.2 Residential EE Program

Table A-3. PY8 Residential EE Program by Customer Segment and Carve-Out

Customer	Carve-Outs		Parameter						
Segment			No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
Residential	Non C/E/ND	Non Low-Income	1,120,660	147,799	11.7	0.0	4,668		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0		
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0		
Residential	G/E/NP	Low-Income	0	0	0.0	0.0	0		
	G/E/NP Total		0	0	0.0	0.0	0		
	Low-Income To	otal	0	0	0.0	0.0	0		
	Sector Total		1,120,660	147,799	11.7	0.0	4,668		
· - 	Non-O/F/ND	Non Low-Income	214	116	0.0	0.0	7		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	$ \frac{1}{0}$		
	0/5/ND	Non Low-Income	0	0	0.0	0.0	0		
Small C&I	G/E/NP Low-Income		0	0	0.0	0.0			
	G/E/NP Total		0	0	0.0	0.0			
	Low-Income Total		0	0	0.0	0.0	0		
	Sector Total		214	116	0.0	0.0	7		
	Nee C/E/ND	Non Low-Income	11	4	0.0	0.0	0		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0		
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0		
arge C&I	G/E/NP	Low-Income	<u> </u>	0	0.0	0.0	0		
	G/E/NP Total	·		0	0.0	0.0	o_		
	Low-Income To	otal	0	0	0.0	0.0	0		
	Sector Total	- · -	11	4	0.0	0.0			
	Non O/E/ND	Non Low-Income	1,120,885	147,919	11.7	0.0	4,675		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	_ <u>~</u>		
Total) C/E/NP	Non Low-Income	0	0	0.0	0.0	0		
	G/E/NP	Low-Income	0	0	0.0	0.0			
	G/E/NP Total		0	0	0.0	0.0	0		
	Low-Income To	otal	0	0	0.0	0.0	0		
		Total	1,120,885	147,919	11.7	0.0	4,675		

Residential EE Program Lighting, Appliance, and HVAC Solution

Table A-4. Residential EE Program Lighting, Appliance, and HVAC Solution by Customer Segment and Carve-Out

Customer	ł				Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
· -	Non-G/E/NP	Non Low-Income	708,658	71,531	9.7	0.0	3,973
	1 NOTEG/E/NE	Low-Income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0		0.0	0.0	0
Residential	G/E/NF	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	otal		0	0.0	0.0	
	Sector Total	- 	708,658	71,531	9.7	0.0	3,973
	Non-G/E/NP	Non Low-Income	111	8	0.0	0.0	3
	Non-G/E/NP	Low-income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
mall C&I G/	Low-Income			0	0.0	0.0	0
	G/E/NP Total		<u> </u>	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		111	8	0.0	0.0	3
		Non Low-Income	8	1	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0
	0/5/ND	Non Low-Income	0	0	0.0	0.0	0
.arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	 	0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		8	1	0.0	0.0	<u>_</u>
	+	Non Low-Income	708,777	71,540	9.8	0.0	3,976
	Non-G/E/NP	Low-Income		0	0.0	0.0	o
	1.0/5/10	Non Low-Income	o - ;		0.0	0.0	0
otal	G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP Total	·	0	0	0.0	0.0	
	Low-income To	otal	·— o :-	0	0.0	0.0	o -
	b	Total	708,777	71,540	9.8	;	3,976

Residential EE Program Appliance Recycling Solution

Table A-5. PY8 Residential EE Program Appliance Recycling Solution by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	New C/E/ND	Non Low-Income	8,386	8,419	1.2	0.0	374
	INON-G/E/NP	Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP G/E/NP Total Low-Income Total Non-G/E/NP G/E/NP G/E/NP	Non Low-Income	0	0	0.0	0.0	0
Residential		Low-Income	<u> </u>	0	0.0	0.0	0
			0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		8,386	8,419	1.2	0.0	374
·	Non C/E/ND	Non Low-Income	103	108	0.0	0.0	5
	NON-G/E/NP	Low-Income	0	0	0.0	0.0	0
	C/E/ND	Non Low-Income	0	0	0.0	0.0	0
Small C&i	Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	<u> </u>
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		103	108	0.0	0.0	5
	N 0/5/ND	Non Low-Income	3	3	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0.545	Non Low-Income		0	0.0	0.0	0
Large C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total	· · · · · · · · · · · · · · · · · · ·	3		0.0	0.0	
	N 0/5/ND	Non Low-Income	8,492	8,530	1.2	0.0	379
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0 -
	0/5/10	Non Low-Income	- 		0.0	0.0	0
Total	G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
		Total	8,492	8,530	1.2	0.0	379

Residential EE Program Whole Home Solution

Table A-6. PY8 Residential EE Program Whole Home Solution by Customer Segment and Carve-Out

Customer Segment Residential					Parameter		
	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	N C/E/ND	Non Low-Income	2,359	2,709	0.3	0.0	117
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	Low-Income Non Low-Income Non Low-Income Low-Income Low-Income C/E/NP Total	Non Low-Income	0	0	0.0	0.0	0
esidential	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	
	Sector Total	- = = = 	2,359	2,709	0.3	0.0	117
	ALL CITING	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/10	Non Low-Income	0	0	0.0	0.0	0
Small C&I	i G/E/NP	Low-Income	0	0	0.0	0.0	0
	Sector Total Non-G/E/NP G/E/NP Total Low-IncomeTot Sector Total Non-G/E/NP G/E/NP G/E/NP G/E/NP		0		0.0	0.0	0
	Low-IncomeTo	tal	Ō	0	0.0	0.0	0
	Sector Total		0	0	0.0		0
	N. C/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0
		Non Low-Income	0		0.0		0
.arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
_	G/E/NP Total		0		0.0	0.0	0
	Low-Income To	otal	0		0.0	0.0	0
	Sector Total		Ō	0	0.0	0.0	0
	No OFIND	Non Low-Income	2,359	2,709	0.3	´ 0.ō İ	117
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/ND	Non Low-Income	0	Ó	0.0	0.0	0
otal	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	- •	0	0	0.0	0.0	<u>_</u>
	Low-Income To	otal	0	0	0.0	0.0	0
	1	Total	2,359	2,709	0.3	0.0	117

Residential EE Program New Construction Solution

Table A-7. PY8 Residential EE Program New Construction Solution by Customer Segment and Carve-Out

Customor					Parameter	· · · · · · · · · · · · · · · · · · ·	
Segment	Carve-Outs		No. of Participants:	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Residential	Non-G/E/NP	Non Low-Income	311	738	0.2	0.0	204
	NOTI-G/E/NP	Low-Income	0 0		0.0		0
	G/E/NP Total Low-income To Sector Total Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
Residential	, G/E/NP	Low-income	0	0	0.0	0.0	0 -
	G/E/NP Total		0	0	0.0	0.0	0
	, Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		311	738	0.2	0.0	204
	N O/F/ND	Non Low-Income	0	0	0.0	0.0	0
	NON-G/E/NP	Low-Income	0	0	0.0	0.0	0
		Non Low-Income	0		0.0	0.0	0
Small C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	N 0/F/ND	Non Low-Income	0	0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/00	Non Low-Income	0	0	0.0	0.0	
₋arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	otal	0	0	0.0	0.0	
	Sector Total			0	0.0	0.0	0
_) N 0/E/NE	Non Low-Income	311	738	0.2	0.0	204
	Non-G/E/NP	Low-Income	- † 0	0	0.0	0.0	0
		Non Low-Income	0	0	0.0	0.0	0
Total	G/E/NP	Low-Income	0	0	0.0	0.0	0 -
i Vidi	G/E/NP Total	 : _	0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	
	1	Total	311	738	0.2	0.0	204



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Residential EE Program Behavioral Solution

Table A-8. PY8 Residential EE Program Behavioral Solution by Customer Segment and Carve-Out

Customer Segment			Parameter						
	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)		
	Non-G/E/NP	Non Low-Income	396,709	62,424	0.0	0.0	0		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0		
	C/E/ND	Non Low-Income	0	0	0.0	0.0	0		
esidential	G/E/NP	Low-Income	0	0	0.0	0.0	- - - - - -		
	G/E/NP Total		0	0	0.0	0.0	0		
	Low-Income To	otal	0	0	0.0	0.0	<u></u>		
	Sector Total		396,709	62,424	0.0	0.0	0		
	Non C/E/ND	Non Low-Income	0	0	0.0	0.0	0		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0		
	0/5/ND	Non Low-Income	0		0.0	0.0	0		
mall C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0		
<u>֓</u> ֖֖֖֖֖֖֖֖֖֖֖֞֞֞֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞	G/E/NP Total		0	0	0.0	0.0	0		
	Low-income Total		0	0	0.0	0.0	0		
	Sector Total		0	0	0.0	0.0	0		
	N 0/5/ND	Non-G/E/NP Non Low-Income		0	0.0	0.0	0		
	Non-G/E/NP	Low-income	0	0	0.0	0.0	0		
	0/5/10	Non Low-Income	0 - 1	0	0.0	0.0	0		
arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0		
	G/E/NP Total		0	0	0.0	0.0	0		
	Low-Income To	otal	0	0	0.0	0.0	0		
	Sector Total		··· <u> </u>	0	0.0	0.0			
. –	1 ·	Non Low-Income	396,709	62,424	0.0	0.0	Õ –		
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0		
	~	Non Low-Income	0	0	0.0	0.0	Ó		
otai	· G/E/NP	Low-Income	0	0	0.0	0.0	0		
	G/E/NP Total	- 4 - 	o	0	0.0	0.0	0		
	Low-Income To	otal	<u> </u>	<u> </u>	0.0	0.0			
	r	Total	396,709	62,424	0.0	0.0	0		

Residential EE Program Multifamily Targeted Market Segment

Table A-9. PY8 Residential EE Program Multifamily Targeted Market Segment by Customer Segment and Carve-Out

Customer Segment					Parameter		
	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
-	Non-G/E/NP	Non Low-Income	4,237	1,978	0.2	0.0	0
	NON-G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0	0	0.0	0.0	o –
esidential	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		4,237	1,978	0.2	0.0	0
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	
	NOR-G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
imall C&I	, G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income 1	otal	0	0	0.0	0.0	
	Sector Total		0	0	0.0	0.0	0
	Non C/F/ND	Non Low-Income	0	0	0.0	0.0	0
	\- 	Low-Income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0		0.0	0.0	- ₀
arge C&I	(G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		0		0.0	0.0	ô
	Non CIEINE	Non Low-Income	4,237	1,978	0.2	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	
`otal	0/5/010	Non Low-Income	0	0	0.0	0.0	0
	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	-	Total	4,237	1,978	0.2	0.0	

A.3 Low-Income EE Program

Table A-10. PY8 Low-Income EE Program by Customer Segment and Carve-Out

Oustomer -				-	Parameter		
gedweut Securen	Carve-Outs		No. of Participants	PYRIID MWh/year		PWTDMW(DR)	licentives (\$1,000)
	Non C/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	64,375	19,661	2.2	0.0	350
	LOSAID	Non Low-Income	0	0	0.0	0.0	0
Residential	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		- † - 0	0	0.0	0.0	<u>_</u>
	Low-Income To	otal	64,375	19,661	2.2	0.0	350
	Sector Total		64,375	19,661	2.2	0.0	350
	No. 0/5/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	10	204	0.0	0.0	0
	0.50	Non Low-Income	0	0	0.0	0.0	0
mall C&I	(G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0		0.0	0.0	0
	Low-Income Total		10	204	0.0	0.0	0
	Sector Total		10	204	0.0	0.0	0
		Non Low-Income	0	${0}$	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
		Non Low-Income	0	0	0.0	0.0	o
.arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
J	G/E/NP Total		j <u> </u>	0	0.0	0.0	0
	Low-Income To	otal	_ '. <u>" " </u>	0	0.0	0.0	0
	Sector Total	- -	· 0 — i	_ O	0.0	0.0	<u>-</u>
		Non Low-Income	- 0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	64,385	19,865	2.2	0.0	350
		Non Low-Income	~ ~ ~ †	0	0.0	0.0	0
Γotal	G/E/NP	Low-Income	-	0	i-· <u>0.0</u>	<u> </u>	0
	G/E/NP Total	<u> </u>	0	0	0.0	0.0	_ _
	Low-Income To	otal	64,385	19,865	2.2	0.0	350
		Total	64,385	19,865	+ 2.2	0.0	350

Low-Income EE Program Lighting Solution

Table A-11. PY8 Low-Income EE Program Lighting Solution by Customer Segment and Carve-Out

Quatomer					Parameter		_
Segment:	Carve-Outs	Cenve-Quis		PYRIUD MWh/year	PYRIDMW (EE)	PWID MW (DE)	(\$1,000)
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	56,327	3,141	0.4	0.0	323
	O/E/ND	Non Low-Income		0	0.0	0.0	0
Residential	G/E/NP Low-Income		0 - 1	0	0.0	0.0	
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		56,327	3,141	0.4	0.0	323
	Sector Total	Sector Total		3,141	0.4	0.0	323
	Non C/E/ND	Non Low-Income	0	0 - 0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	C/E/ND	Non Low-Income	0	0	0.0	0.0	0
Small C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total			0	0.0	0.0	0
	Low-Income Total			0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	
		Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	_ + 0,	0	0.0	0.0	0
	0/5/ND	Non Low-Income	0	0	0.0	0.0	
Large C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total			0	0.0	0.0	0
	, Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		0		0.0	0.0	
		Non Low-Income	·		0.0	0.0	
	Non-G/E/NP	Low-Income	56,327	3,141	0.4	0.0	323
	O/E/NID	Non Low-Income	0	0	0.0	0.0	 O
Γotal	G/E/NP	Low-income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-IncomeTo	tal	56,327	3,141	0.4	0.0	323
		Total	56,327	3,141	0.4	0.0	323

Low-Income EE Program Whole Home Solution

Table A-12. PY8 Low-Income EE Program Whole Home Solution by Customer Segment and Carve-Out

Residential Small C&I		<u>-</u>			Parameter		
	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	8,048	16,520	1.8	0.0	27
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
esidential	- G/E/NF	Low-Income	0	0	0.0	0.0	
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	8,048	16,520	1.8	0.0	27
	Sector Total		8,048	16,520	1.8	0.0	27
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	NON-G/E/NP	Low-Income	10	204	0.0	0.0	0
	: G/E/NP	Non Low-Income	0	0	0.0	0.0	
mall C&I	: G/E/NP	Low-Income	0	0	0.0	0.0	0
i	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		10	204	0.0	0.0	0
	Sector Total		10	204	0.0	0.0	0
<u>-</u>	Non O/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
		Non Low-Income	0	0	0.0	0.0	0
arge C&I	; G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total	-	0	0	0.0	0.0	0
	N C/E/ND	Non Low-Income	. 0 .	_ 0	0.0	0.0	0
	Non-G/E/NP	Low-Income	8,058	16,723	1.9	0.0	27
otal	C/E/ND	Non Low-Income	i. o	o	0.0	0.0	0
	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	· — - — - — — -	0	0 -	0.0	0.0	0
	Low-Income To	otal	8,058	16,723	1.9	0.0	27
		Total	8,058	16,723	1.9	0.0	

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A.4 Small C&I EE Program

Table A-13. PY8 Small C&I EE Program by Customer Segment and Carve-Out

Oustomar					Parameter .		
gedment	Carve-Outs		No.of Partidipants	PYRID MWb/year	PYRID MW (EE)	PYVIDMW(DIX)	licentives (\$1,000)
	Non-G/E/NP Non Low-income		0	0	0.0	0.0	0
	NOII+G/E/NF	Low-Income	0	0	0.0	0.0	
	C/E/NID	G/E/NP Non Low-Income		0	0.0	0.0	0
lesidential	G/E/NF	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0		0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	Non O/E/ND	Non Low-Income	612	16,109	2.7	0.0	567
	Non-G/E/NP	Low-Income	0		0.0	0.0	0
	0/5/0/0	Non Low-Income	44	1,674	0.3	0.0	84
imali C&I	G/E/NP Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		44	1,674	0.3	0.0	84
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		656	17,783	2.9	0.0	650
	Non Low-Income	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0.5710	Non Low-Income	0	0	0.0	0.0	
arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
-	G/E/NP Total	' -	0		0.0	0.0	0
	Low-Income To	otal		0	0.0	0.0	0
	Sector Total	· · · · · · · · · · · · · · · · · · ·	<u> </u>	0	0.0	0.0	
	-	Non Low-Income	612	16,109	2.7	0.0	567
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	- 0
		Non Low-Income	44	1,674	0.3	0.0	84
Total	G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP Total		44	1,674	0.3	0.0	84
	Low-Income To	otal	0	0	0.0	0.0	0
		Total	656	17,783	2.9	0.0	650

Small C&I EE Program Equipment and Systems Solution

Table A-14. PY8 Small C&I EE Program Equipment and Systems Solution by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	N 0/5/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	r O/E/ND	Non Low-Income	0	0	0.0	0.0	0
esidential	G/E/NP	Low-Income	0	0 =	0.0	0.0	0
	G/E/NP Total		0		0.0	0.0	0
	Low-Income To	otal	0	0 -	0.0	0.0	
	Sector Total		0	0	0.0	0.0	
	Non OIFIND	Non Low-Income	395	11,446	1.8	0.0	461
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	O/E/ND	Non Low-Income	39	1,485	0.2	0.0	81
imall C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		39	1,485	0.2	0.0	81
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		434	12,930	2.1	0.0	542
	Non CITIND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/ND	Non Low-Income	0	0	0.0	0.0	0
arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0 -	0	0.0	0.0	0
	Sector Total	 = -	0	0	0.0	0.0	0
	N OFFID	Non Low-Income	395	11,446	1.8	0.0 - '	461
	Non-G/E/NP	Low-Income	<u></u>	ō	0.0	0.0	0
	- C/E/ND	Non Low-Income	39	1,485	0.2	0.0	81
otal	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	:	39	1,485	0.2	0.0	81
	Low-Income To	otal	- 0	0	0.0	0.0	0
		Total	434	12,930	2.1	0.0	542

Small C&I EE Program New Construction Solution

Table A-15. PY8 Small C&I EE Program New Construction Solution by Customer Segment and Carve-Out

Customer				Parameter Parame						
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	incentives (\$1,000)			
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0			
	NOTIFICATE/INF	Low-Income	0	0	0.0	0.0	0			
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0			
lesidential	G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP Total		0	0	0.0	0.0	0			
	Low-Income To	otal	0	0	0.0	0.0				
	Sector Total		0	0	0.0	0.0	0			
± ==	Non C/E/NE	Non Low-Income	21	1,788	0.4	0.0	105			
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP	Non Low-Income	2	34	0.0	0.0	3			
mall C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP Total		2	34	0.0	0.0	3			
	Low-Income Total		0	0	0.0	0.0				
	Sector Total		23	1,822	0.4	0.0	108			
	Non C/5/ND Non Low-Income		0	0	0.0	0.0	0			
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0			
arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP Total		0	0	0.0	0.0	0			
	Low-income To	tal	0	0	0.0	0.0	0			
	Sector Total	- — — — —		0	0.0	0.0	0			
_	Non C/E/ND	Non Low-Income	21	1,788	0.4	0.0	105			
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP	Non Low-Income	2	34	0.0	0.0	3			
otal	G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP Total		2	34	0.0	0.0	3			
	Low-Income To	otal	0	0	0.0	0.0	0			
		Total	23	1,822	0.4	0.0	108			

Small C&I EE Program Whole Building Solution

Table A-16. PY8 Small C&I EE Program Whole Building Solution by Customer Segment and Carve-Out

Customar					Parameter		
	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Residential G/ G/ Small C&I G/ S No Arge C&I G/ S No	Non-O/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/ND	Non Low-Income	0	0	0.0	0.0	0
sidential	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	Non-G/E/NP	0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Non-G/E/NP G/E/NP G/E/NP Total	- 	0	0	0.0	0.0	0
	LN O/E/ND	Non Low-Income	133	2,196	0.4	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP Low-Income G/E/NP Total Low-Income Total	Non Low-Income	3	155	0.0	0.0	0
nall C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
ian Odi	G/E/NP Total		3	155	0.0	0.0	0
	Low-Income Total		0		0.0	0.0	0
	Sector Total		136	2,351	0.4	0.0	0
	-,	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0		0.0 0.0 1 0.4 0.0	- 0 -	
	0.54.0	Non Low-Income	0	0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0
arge C&I	G/E/NP	Low-Income	#-Income 0	0	0.0	0.0	0
-	G/E/NP Total		, 0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	
	Sector Total		0	0	0.0	0.0	ō
	+	Non Low-Income	133	2,196	0.4	0.0	0
	Non-G/E/NP	Low-Income	0 -	0	0.0	0.0	Ō
	0/5/10	Non Low-Income	3	155	0.0	0.0	. 0
otal	G/E/NP	Low-income	0	0	0.0	0.0	0 -
	G/E/NP Total	Non Low-Income 0	0.0	0			
	Low-Income To	otal	j		0.0	0.0	0
			136	2,351	0.4	0.0	0

Small C&I EE Program Data Centers Targeted Market Segment

Table A-17. PY8 Small C&I EE Program Data Centers Targeted Market Segment by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
esidential mall C&I	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
sidential	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
- ——	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP G/E/NP Total	Non Low-Income	0	0	0.0	0.0	
nall C&I	Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
!	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	NOTEG/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0		0.0	0.0	0
rge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	tal	0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	
	NOTI-G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
otal	G/E/NF	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	otal	0	0	0.0	0.0	
		Total	0	0	0.0	0.0	0

Small C&I EE Program Multifamily Targeted Market Segment

Table A-18. PY8 Small C&I EE Program Multifamily Targeted Market Segment by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	NOTE-G/E/NE	Low-Income	0	0	0.0	0.0	Ō
	G/E/NP	Non Low-Income	0	0	0.0	0.0	$\overline{0}$
Residential	G/E/NF	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	tal	0	0	0.0	0.0	0
	Sector Total		0 1	0	0.0	0.0	0
	Non-G/E/NP	Non Low-Income	63	679	0.1	0.0	0 -
	Nort-G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
Small C&I	G/E/NP	Low-Income	0	0	0.0	0.0	
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	tal	0	0	0.0	0.0	<u> </u>
	Sector Total		63	679	0.1	0.0	0
	Non C/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-income		0	0.0	0.0	- - -
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0
Large C&I	G/E/NP	Low-income	0		0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	tal	0	 0	0.0	0.0	0
	Sector Total		0 -	0	0.0	0.0	0
	<u>-</u>	Non Low-Income	63	679	0.1	0.0	Ò
	Non-G/E/NP	Low-Income	Ö	0	0.0	0.0	ō
	O/E/ND	Non Low-Income	0 7	o	0.0	0.0	0
Total	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	Ō
	Low-Income To	tal	0	0	0.0	0.0	
		Total	63	679		0.0	0
Sources: SIL	OS database, CSP trac	king data.	•		1	1	

A.5 Large C&I EE Program

Table A-19. PY8 Large C&I EE Program by Customer Segment and Carve-Out

Customer	Carve-Outs			Parameter						
Segment			No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)			
Residential	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0			
	INOTI-G/E/NP	Low-Income	0	0	0.0	0.0	0			
	G/E/NP	Non Low-Income	0	0	0.0	0.0	0			
Residential	Low-Income		0	0	0.0	0.0	0			
	G/E/NP Total		0		0.0	0.0	0			
	Low-Income Total		0	0	0.0	0.0	0			
	Sector Total	· - - · -·	0	0	0.0	0.0				
	Non-G/E/NP	Non Low-Income	0		0.0	0.0	0			
	NON-G/E/NP	Low-Income	0	0	0.0	0.0	0			
	C/E/ND	Non Low-Income	0		0.0	0.0				
Small C&I	G/E/NP	Low-income	0	0	0.0	0.0	0			
	G/E/NP Total		0	0	0.0	0.0	0			
	Low-income Total		0	0	0.0	0.0				
	Sector Total		0	0	0.0	0.0	0			
	Non-G/E/NP	Non Low-Income	117	15,775	2.3	0.0	542			
		Low-Income	0	0	0.0	0.0	0			
	0/5/8/0	Non Low-Income	42	10,191	1.6	0.0	471			
_arge C&I	G/E/NP	Low-Income	0	0	0.0	1 _ 0.0				
	G/E/NP Total	±	42	10,191	1.6	0.0	₄₇₁			
	Low-Income To	otal	0	0	0.0	0.0	0			
	Sector Total		159	25,965	3.9	0.0	1,014			
	N 0/5/ND	Non Low-Income	117	15,775	2.3	0.0	542			
	Non-G/E/NP	Low-Income	0		0.0	0.0				
) C/E/ND	Non Low-Income	42	10,191	1.6	0.0	471			
Γotal	G/E/NP 	Low-Income	0	0	0.0	0.0	0			
i Otal	G/E/NP Total	<u>.</u>	42	10,191	1.6	0.0	471			
	Low-Income To	otal	0	0	0.0	0.0	0			
		Total	159	25,965	3.9	0.0	1,014			



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Large C&I EE Program Equipment and Systems Solution

Table A-20. PY8 Large C&I EE Program Equipment and Systems Solution by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	Non O/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	O/E/ND	Non Low-Income	0	_ 0	0.0	0.0	0
lesidential	ent Non-G/E/NP G/E/NP Total Low-income T Sector Total Non-G/E/NP G/E/NP Total Low-income T Sector Total Non-G/E/NP C&I G/E/NP Total Non-G/E/NP C&I G/E/NP Total C&I C&I	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total			0	0.0	0.0	0
	Low-income To	otal	0	0	0.0	0.0	0
	Sector Total		0		0.0	0.0	0
		Non Low-Income	0		0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/10	Non Low-Income	0	0	0.0	0.0	0
mali C&i	G/E/NP Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
		Non Low-Income	83	10,695	1.7	0.0	406
	Non-G/E/NP	Low-Income	0		0.0	0.0	0
		Non Low-Income	39	9,771	1.6	0.0	426
.arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
_	G/E/NP Total		39	9,771	1.6	0.0	426
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		122	20,467	3.3	0.0	832
		Non Low-Income	83	10,695	1.7	0.0	406
	Non-G/E/NP	Low-Income	<u> </u>		0.0	0.0	0
		Non Low-Income	39	9,771	1.6	0.0	426
otal	G/E/NP	Low-Income		0	0.0	0.0	0
	G/E/NP Total	- 	39	9,771	1.6	0.0	426
	Low-Income To	otal	0	0	0.0	0.0	0
		Total	122	20,467	3.3	0.0	832

Large C&I EE Program New Construction Solution

Table A-21. PY8 Large C&I EE Program New Construction Solution by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
esidential	Non-G/E/NP	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NF	Low-Income	0	0	0.0	0.0	0
	C/E/NID	Non Low-Income	0	0	0.0	0.0	0
Residential	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	G/E/NP Total		0	0.0	0.0	0
	Low-Income Total		0		0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	Non C/E/NO	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/10	Non Low-Income	0	0	0.0	0.0	0
Small C&I	G/E/NP	Low-income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	Non-G/E/NP	Non Low-Income	18	3,696	0.4	0.0	136
		Low-Income	0	0	0.0	0.0	0
	0/5/10	Non Low-Income	3	420	0.1	0.0	46
arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
_	G/E/NP Total		3	420	0.1	0.0	46
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		21	4,116	0.5	0.0	182
-		Non Low-Income	18	3,696	0.4	0.0	136
	Non-G/E/NP	Low-Income		0	0.0	0.0	ō
		Non Low-Income	3	420	0.1	0.0	46
Total	G/E/NP	Low-Income	0	0	0.0	0.0	<u> </u>
	G/E/NP Total		3	420	0.1	0.0	46
	Low-Income To	otal	0	0	0.0	0.0	
	 	Total	21	4,116	0.5	0.0	182



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Large C&I EE Program Data Centers Targeted Market Segment

Table A-22. PY8 Large C&I EE Program Data Centers Targeted Market Segment by Customer Segment and Carve-Out

Oustomer				-	Parameter	· · · · · ·	
Segment	Carve-Outs		No. of Participants	PYRID MWh/year		PWTDMW (DE)	Incentives (\$1,000)
	, Non-G/E/NP	Non Low-Income	_ 0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	C/E/ND	Non Low-Income		0	0.0	0.0	0
Residential	! G/E/NP	Low-Income	0	0 0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0		0.0	0.0	0
	Sector Total	,,,	0	0	0.0	0.0	0
	Non C/F/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	L OVE INID	Non Low-Income	0	0	0.0	0.0	0
Small C&I	G/E/NP Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	0/5/110	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	
	0/5/10	Non Low-Income	0	0	0.0	-0.0	0
.arge C&I	G/E/NP	Low-Income	<u> </u>	0	0.0	0.0	0
•	G/E/NP Total			0	0.0	0.0	
	Low-Income To	otal	<u> </u>	, 0	0.0	0.0	0
	Sector Total		· ·	0	0.0	0.0	0
	- i	Non Low-Income	. 0	Ô	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	j - <u> </u>	0.0	0.0	
Total	0.5015	Non Low-Income	0	j <u>ö</u> -	0.0	0.0	- <u>-</u> -
	G/E/NP	Low-Income		j <u> </u>	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	otal			0.0	0.0	ō
		Total	- ·- 0 - 	·	0.0	0.0	0

Large C&I EE Program Multifamily Targeted Market Segment

Table A-23. PY8 Large C&I EE Program Multifamily Targeted Market Segment by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTO MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
	· Non-G/E/NP	Non Low-Income	0	00	0.0	0.0	0
	Non-G/E/NF	Low-Income	0	0	0.0	0.0	0
	- C/E/ND	Non Low-Income		0	0.0	0.0	0
Residential	G/E/NP	Low-Income	0	0 -	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	tal	0	0	0.0	0.0	
	Sector Total		0	0	0.0	0.0	0
		Non Low-Income	0	0	0.0	0.0	
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/10	Non Low-Income	0	0	0.0	0.0	
imall C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total	<u> </u>	0	0	0.0	0.0	
_ ====	Low-Income To	tal		0	0.0	0.0	<u> </u>
	Sector Total		0	0	0.0	0.0	0
		Non Low-Income	16	1,383	0.2	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
		Non Low-Income		0	0.0	0.0	0
.arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	
_	G/E/NP Total		<u> </u>		0.0	0.0	<u> </u>
	Low-Income To	tal	0	0	0.0	0.0	0
	Sector Total	· 	16	1,383	0.2	0.0	
	• —	Non Low-Income	16	1,383	0.2	0.0	- 0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	
rotal G	<u> </u>	Non Low-Income	0	0	0.0	0.0	0
	G/E/NP	Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	
	Low-Income To	tal	- - - 0	<u> </u>	0.0	0.0	_ 0
		Total	16	1,383	0.2	0.0	- - 0

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A.6 CHP EE Program

Table A-24. PY8 CHP EE Program by Customer Segment and Carve-Out

Customer					Parameter		
Segment	Carve-Outs		No. of Participants	PYRTD MWh/year	PYRTD MW (EE)	PYVTD MW (DR)	Incentives (\$1,000)
Residential Contact Signature	Non C/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP G/E/NP Total Low-Income T Sector Total Non-G/E/NP G/E/NP Total	Low-Income	0	0	0.0	0.0	0
		Non Low-Income	0	0	0.0	0.0	0
Residential		Low-Income	0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	Not C/E/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	- 0 —
	G/E/NP G/E/NP Total	Non Low-Income	0		0.0	0.0	0
mali C&i	Low-Income		0	0	0.0	0.0	0
	G/E/NP Total		0	0	0.0	0.0	0
	Low-Income Total		0	0	0.0	0.0	0
	Sector Total		0	0	0.0	0.0	0
	N 0/5/ND	Non Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP	Low-Income	0	0	0.0	0.0	0
	0/5/0/0	Non Low-Income	0	0	0.0	0.0	0
.arge C&I	G/E/NP	Low-Income	0	0	0.0	0.0	0 -
	G/E/NP Total	-i	+ - <u>ŏ</u> i	. 0	0.0	, ō.o	0
	Low-Income To	otal	0	0	0.0	0.0	0
	Sector Total		0		0.0	0.0	— _
		Non Low-Income	0	0	0.0	0.0	0
	NON-G/E/NP	Low-Income	0	o	0.0	0.0	<u> </u>
	0/5/ND	Non Low-Income	_ · _ <u>0</u>	0	0.0	0.0	0
otal	G/E/NP	Low-Income	0	0	0.0	0.0	0
	Non-G/E/NP Low-Income G/E/NP Low-Income Low-Income	0	0	0.0	0.0	0	
	Low-Income To	otal		0	0.0	0.0	0
	F -	Total	0	0	0.0	0.0	

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