



**Duquesne Light**  
Our Energy...Your Power

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Counsel

April 11, 2016

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*Via Overnight Delivery*

Ms. Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building, 2<sup>nd</sup> Floor  
400 North Street  
Harrisburg, PA 17120

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**Re: Duquesne Light Company Energy Efficiency, Conservation and Demand Response Plan  
Docket No. M-2012-2334399**

Dear Secretary Chiavetta:

Enclosed for filing is Duquesne Light Company's Quarterly Report to the Pennsylvania Public Utility Commission for the period of December 1, 2015 through February 29, 2016, Program Year 7, Quarter 3 for its Phase II Energy Efficiency and Conservation Plan.

Duquesne Light is also providing a copy of the report to the Act 129 Statewide Evaluator (GDS Associates, Inc.).

Respectfully Submitted,

Adrienne D. Kurtanich  
Counsel, Regulatory

Enclosure

cc: David DeFide, Duquesne Light Company

# **Quarterly Report to the Pennsylvania Public Utility Commission**

**For the Period  
December 1, 2015 through February 29, 2016  
Program Year 7, Quarter 3**

For Pennsylvania Act 129 of 2008  
Energy Efficiency and Conservation Plan

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Prepared by Navigant Consulting Inc.

For

Duquesne Light

April 14, 2016

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## Acronyms

C&I	Commercial and Industrial
CATI	Computer-Aided Telephone Interview
CFL	Compact Fluorescent Lamp
Phase II	Cumulative Program/Portfolio Phase II Inception to Date (Phase II Savings)
Phase II-CO	Cumulative Program/Portfolio Phase II Inception to Date including Carry Over Savings from Phase I
Phase II-Q	Phase II verified gross savings from the beginning of Phase II + PYTD reported gross savings.
Phase II-Q-CO	Phase II verified gross savings from the beginning of Phase II + verified Carry Over Savings from Phase I + PYTD reported gross savings
CSP	Conservation Service Provider or Curtailment Service Provider
CVR	Conservation Voltage Reduction
CVRf	Conservation Voltage Reduction factor
DLC	Direct Load Control
DR	Demand Response
EDC	Electric Distribution Company
EE&C	Energy Efficiency and Conservation
EM&V	<i>Evaluation, Measurement, and Verification</i>
GNI	Government, Non-Profit, Institutional
HVAC	Heating, Ventilating, and Air Conditioning
IQ	Incremental Quarter
kW	Kilowatt
kWh	Kilowatt-hour
LED	Light Emitting Diode
LEEP	Low-Income Energy Efficiency Program
LIURP	Low-Income Usage Reduction Program
M&V	Measurement and Verification
MW	Megawatt
MWh	Megawatt-hour
NTG	Net-to-Gross
PA PUC	Pennsylvania Public Utility Commission
PY5	Program Year 2013, from June 1, 2013 to May 31, 2014
PY6	Program Year 2014, from June 1, 2014 to May 31, 2015
PY7	Program Year 2015, from June 1, 2015 to May 31, 2016
PYX	Program Year 201X
PY7 Q3	Program Year 7, Quarter 3
PYTD	Program Year to Date

SEER	Seasonal Energy Efficiency Rating
SWE	Statewide Evaluator
TRC	Total Resource Cost
TRM	Technical Reference Manual

## 1 Overview of Portfolio

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). In 2009, each EDC submitted energy efficiency and conservation (EE&C) plans—which were approved by the Pennsylvania Public Utility Commission (PUC)—pursuant to these goals. Duquesne Light filed new EE&C plans with the PA PUC in November 2012 for Phase II (June 2013 through May 2016) of the Act 129 programs. These plans were subsequently approved by the PUC in 2013.

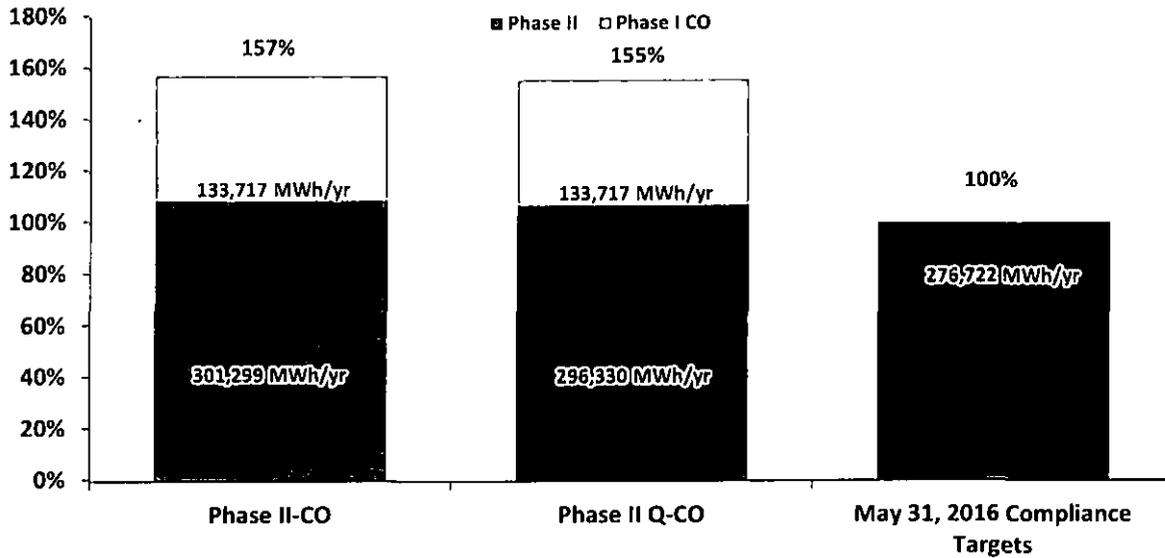
Implementation of Phase II of the Act 129 programs began on June 1, 2013. This report documents the progress and effectiveness of the Phase II EE&C accomplishments for Duquesne Light in the 3<sup>rd</sup> quarter of Program Year 7 (PY7), defined as December 1, 2015, through February 29, 2016, as well as the cumulative accomplishments of the programs since inception of Phase II. This report additionally documents the energy savings carried over from Phase I. The Phase I carry over savings count towards EDC savings compliance targets for Phase II.

Navigant Consulting, Inc. (Navigant) is evaluating the programs, which included measurement and verification of the savings. The verified savings for PY7 will be reported in the annual report, to be filed November 15, 2016.

### 1.1 Summary of Achievements

Duquesne Light has achieved 157 percent of the May 31, 2016 energy savings compliance target, based on cumulative program inception to date (Phase II) reported gross energy savings<sup>1</sup>, and 155 percent of the energy savings compliance target, based on Phase II-Q-CO<sup>2</sup> gross energy savings achieved through Quarter 3, as shown in Figure 1-1.

Figure 1-1: Cumulative Portfolio Phase 2 Inception to Date (Phase II) Energy Impacts



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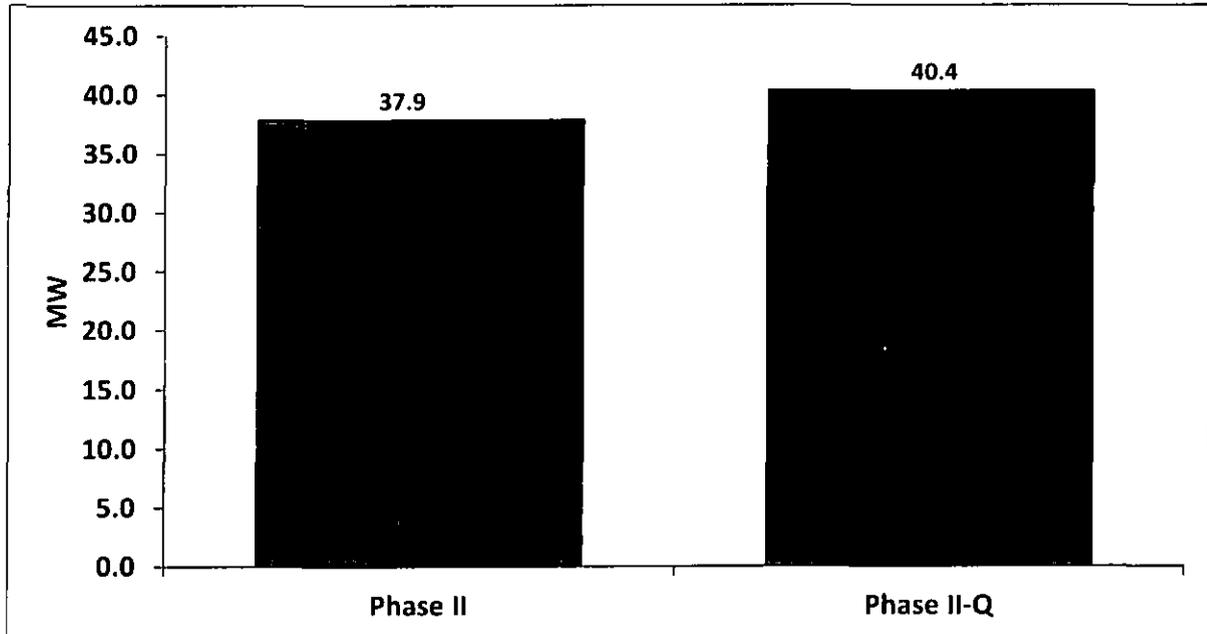
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<sup>1</sup> Phase II Reported Gross Savings = Phase II Reported Gross Savings from the beginning of Phase II through the end of the current quarter. All savings reported as Phase II reported gross savings are computed this way.

<sup>2</sup> Phase II-Q-CO Gross Savings = Phase II verified gross savings from the beginning of Phase II including verified Carry Over Savings from Phase I + PY5 verified gross savings, PY6 verified gross savings and PYTD reported gross savings.

Duquesne Light has achieved 40.4 MW of demand reduction since the start of Phase II.

**Figure 1-2: Phase II Portfolio Demand Reduction**



There are 14 measures available to the low-income sector at no cost to the customer. These measures offered to the low-income sector therefore comprise 15 percent of the total measures offered. As required for Phase II this exceeds the fraction of the electric consumption of the utility's low-income households divided by the total electricity consumption in the Duquesne Light territory (8.4 percent).<sup>3</sup> The Phase II reported gross energy savings achieved in the low-income sector is 17,030 MWh/yr; this is 6.2 percent of Duquesne Light's Phase II total portfolio gross energy savings goal. This exceeds the percentage required (4.5%) of the Phase II goal.

Duquesne Light achieved 105 percent of the May 31, 2016, energy reduction compliance target for government, nonprofit and institutional sector, based on Phase II reported gross energy savings<sup>4</sup>, and 102

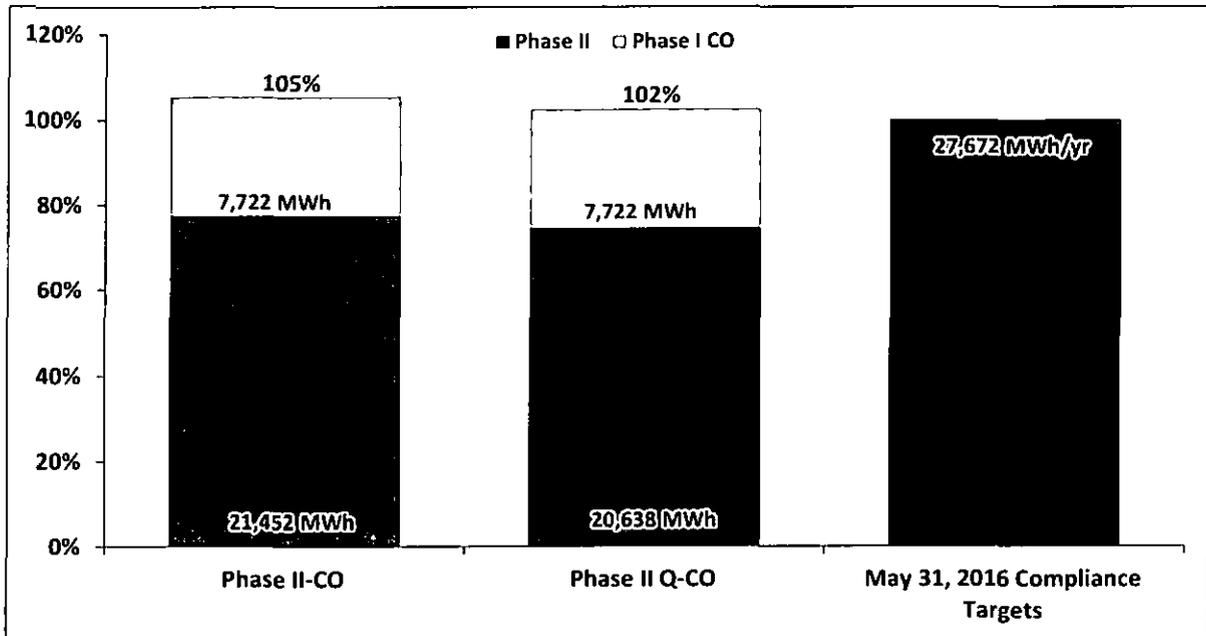
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<sup>3</sup> Act 129 includes a provision requiring electric distribution companies to offer a number of energy efficiency measures to low-income households that are "proportionate to those households' share of the total energy usage in the service territory." 66 Pa.C.S. §2806.1(b)(i)(G). Per SWE's "Low-income Measures Memo Clarification 10102012", dated October 10, 2012, consumption of low-income households as a percentage of all consumption for Duquesne Light customers is 8.402%.

<sup>4</sup> Phase II Reported Gross Savings = Phase II Reported Gross Savings from the beginning of Phase II through the end of the current quarter. All savings reported as Phase II reported gross savings are computed this way.

percent of the target based on Phase II-Q-CO<sup>5</sup> gross energy savings achieved through Quarter 3, as shown in Figure 1-3.

**Figure 1-3: Government, Nonprofit, and Institutional Sectors<sup>6</sup>**



## 1.2 Program Updates and Findings

The energy efficiency programs which participants took part in during PY7Q3 have not changed substantially from those offered in PY7Q2. Near the end of PY7Q2, JACO, the Residential Appliance Recycling Program (RARP) Conservation Service Provider (CSP) ceased operations unexpectedly. During PY7Q3, Duquesne Light hired an alternative contractor, Appliance Warehouse, to collect the appliances that had been schedule for pick up at the time when JACO ceased operations.

## 1.3 Evaluation Updates and Findings

During this quarter, evaluation activity primarily involved completing analyses needed for the PY7Q2 quarterly report submitted in January. Process evaluation survey instruments for residential and

<sup>5</sup> Phase II-Q-CO Gross Savings = Phase II verified gross savings from the beginning of Phase II including verified Carry Over Savings from Phase I + PY5 verified gross savings, PY6 verified gross savings and PYTD reported gross savings.

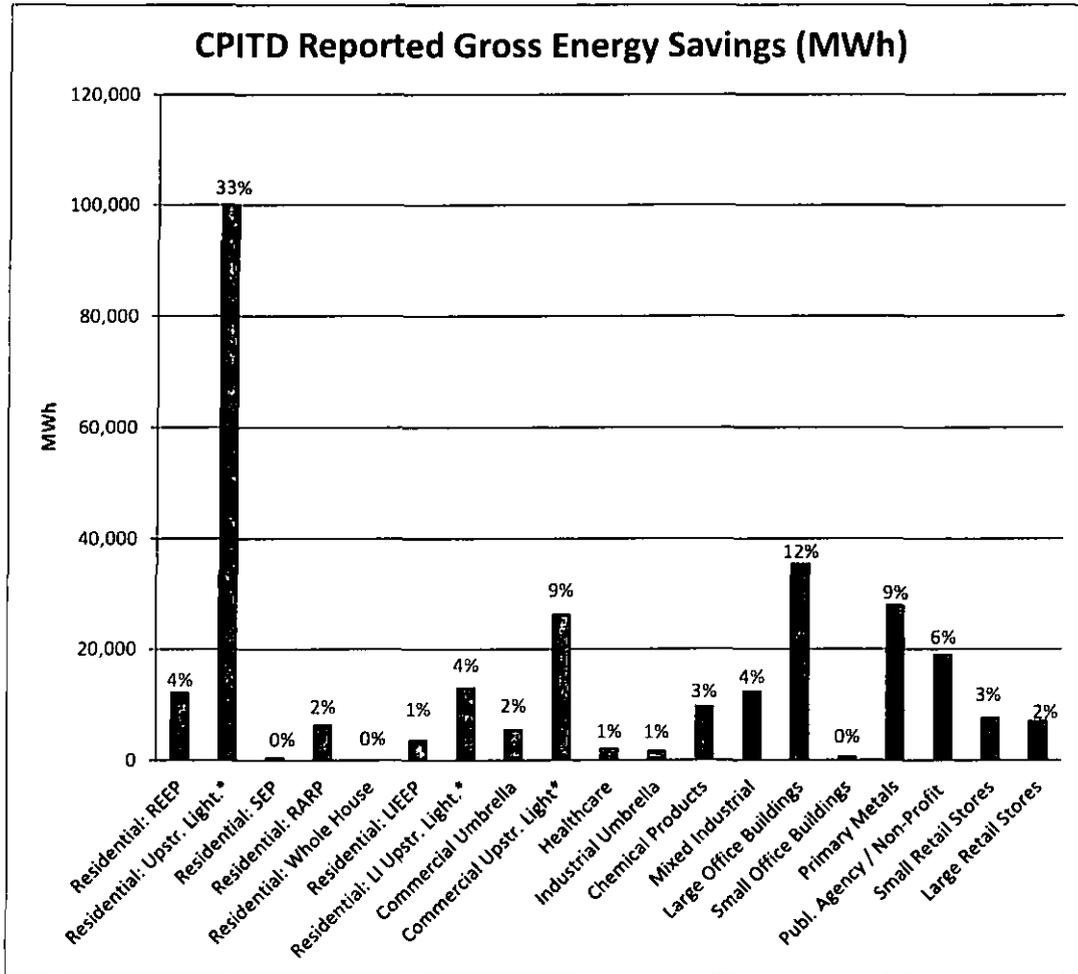
<sup>6</sup> GNI savings include savings from Public Agency/Non-profit and Multifamily Housing Retrofit projects.

commercial programs were also modified slightly from last year's surveys and programming of these changes began. Project file review for verification of sampled nonresidential projects was initiated.

## 2 Summary of Energy Impacts by Program

A summary of the reported energy savings by program is presented in Figure 2-1.

Figure 2-1: Phase II Reported Gross Energy Savings by Program\*



\* The allocation of Upstream Lighting CFL savings into Residential and Low-income Upstream Lighting was updated based on evaluation research Navigant conducted in Program Year 6. The research determined that 0% of CFL bulbs were sold to commercial customers and 4.9% of CFLs and 2.3% of LEDs were sold to low income customers.

A summary of energy impacts by program through PY7Q3 is presented in Table 2-1.

**Table 2-1: EDC Reported Participation and Gross Energy Savings by Program**

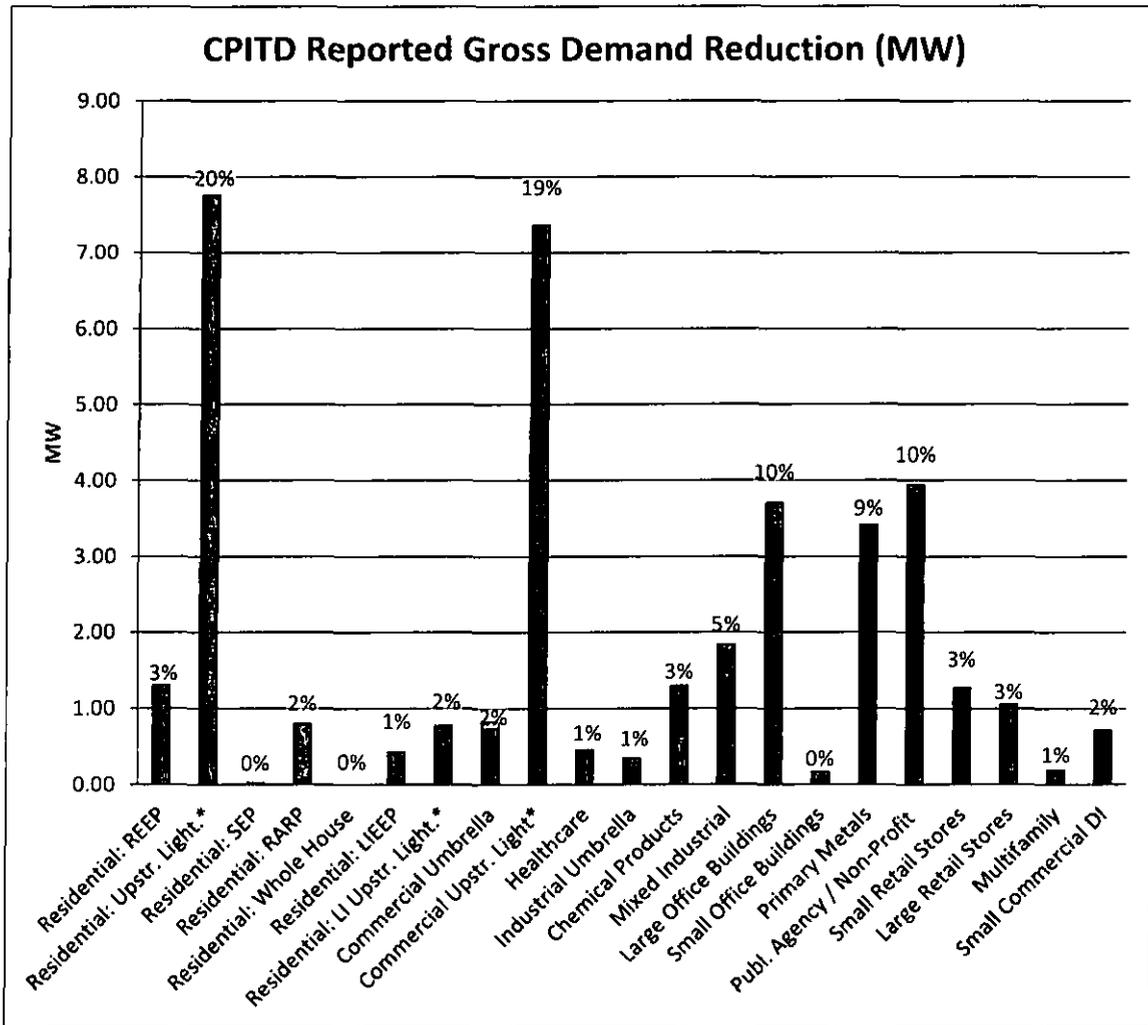
Program	Participants			Reported Gross Impact (MWh)*			
	IQ	PYTD	Phase II	IQ	PYTD	Phase II	Phase II-Q
Residential: EE Program (REEP): Rebate Program	1,215	7,168	39,708	317	1,272	12,255	8,338
Residential: EE Program (Upstream Lighting)	N/A	N/A	N/A	9,688	25,187	100,286	101,154
Residential: School Energy Pledge	125	125	1,698	36	36	618	447
Residential: Appliance Recycling	770	2,016	6,976	791	2,060	6,439	6,513
Residential: Whole House	45	76	198	33	49	134	131
Residential: Low Income EE	571	1,531	9,123	286	733	3,844	3,352
Residential: Low Income EE (Upstream Lighting)	N/A	N/A	N/A	279	902	13,187	13,375
Commercial Sector Umbrella EE	12	21	57	2,803	4,293	5,619	5,597
Commercial Sector Umbrella EE (Upstream Lighting)	N/A	N/A	N/A	0	0	26,400	27,079
Healthcare EE	0	0	10	0	0	2,218	2,273
Industrial Sector Umbrella EE	1	3	6	18	75	1,716	1,752
Chemical Products EE	1	3	17	9,083	9,245	9,852	9,863
Mixed Industrial EE	8	17	69	3,065	3,348	12,441	12,557
Office Building – Large – EE	3	5	114	1,686	5,928	35,522	34,317
Office Building – Small EE	0	0	35	0	0	827	838
Primary Metals EE	2	3	28	2,351	2,424	28,050	28,548
Public Agency / Non-Profit	21	34	138	2,425	5,529	19,139	18,402
Retail Stores – Small EE	0	1	350	0	49	7,761	7,467
Retail Stores – Large EE	0	0	70	0	0	7,247	6,896
Multifamily Housing Retrofit	0	16	55	0	141	2,313	2,236
Small Commercial Direct Install	0	0	88	0	0	5,429	5,195
<b>TOTAL PORTFOLIO</b>	<b>2,774</b>	<b>11,019</b>	<b>58,740</b>	<b>32,862</b>	<b>61,269</b>	<b>301,299</b>	<b>296,330</b>

\* The allocation of Upstream Lighting CFL savings into Residential and Low-income Upstream Lighting was updated based on evaluation research Navigant conducted in Program Year 6. The research determined that 0% of CFL bulbs were sold to commercial customers and 4.9% of CFLs and 2.3% of LEDs were sold to low income customers.

### 3 Summary of Demand Impacts by Program

A summary of the reported demand reduction by program is presented in Figure 3-1.

Figure 3-1: Phase II Demand Reduction by Program\*



\* The allocation of Upstream Lighting CFL savings into Residential and Low-income Upstream Lighting was updated based on evaluation research Navigant conducted in Program Year 6. The research determined that 0% of CFL bulbs were sold to commercial customers and 4.9% of CFLs and 2.3% of LEDs were sold to low income customers.

A summary of total demand reduction impacts by program through PY7Q3 is presented in Table 3-1.

**Table 3-1: Participation and Reported Gross Demand Reduction by Program**

Program	Participants			Reported Gross Impact (MW)*			
	IQ	PYTD	Phase II	IQ	PYTD	Phase II	Phase II-Q
Residential: EE Program (REEP): Rebate Program	1,215	7,168	39,708	0.067	0.292	1.313	0.995
Residential: EE Program (Upstream Lighting)*	N/A	N/A	N/A	0.969	2.520	7.765	8.054
Residential: School Energy Pledge	125	125	1,698	0.003	0.003	0.038	0.029
Residential: Appliance Recycling	770	2,016	6,976	0.095	0.248	0.818	0.822
Residential: Whole House	45	76	198	0.003	0.005	0.013	0.013
Residential: Low Income EE	571	1,531	9,123	0.031	0.081	0.445	0.416
Residential: Low Income EE (Upstream Lighting)*	N/A	N/A	N/A	0.028	0.090	0.788	0.814
Commercial Sector Umbrella EE	12	21	57	0.382	0.583	0.849	0.929
Commercial Sector Umbrella EE (Upstream Lighting)*	N/A	N/A	N/A	0.000	0.000	7.373	7.591
Healthcare EE	0	0	10	0.000	0.000	0.469	0.486
Industrial Sector Umbrella EE	1	3	6	0.004	0.019	0.357	0.345
Chemical Products EE	1	3	17	1.199	1.213	1.309	1.307
Mixed Industrial EE	8	17	69	0.323	0.360	1.851	1.839
Office Building – Large – EE	3	5	114	0.188	0.188	3.720	4.888
Office Building – Small EE	0	0	35	0.000	0.000	0.181	0.203
Primary Metals EE	2	3	28	0.288	0.297	3.428	3.339
Public Agency / Non-Profit	21	34	138	1.073	1.295	3.956	4.188
Retail Stores – Small EE	0	1	350	0.000	0.007	1.279	1.708
Retail Stores – Large EE	0	0	70	0.000	0.000	1.063	1.546
Multifamily Housing Retrofit	0	16	55	0.000	0.000	0.196	0.160
Small Commercial Direct Install	0	0	88	0.000	0.000	0.731	0.717
<b>TOTAL PORTFOLIO</b>	<b>2,774</b>	<b>11,019</b>	<b>58,740</b>	<b>4.655</b>	<b>7.203</b>	<b>37.945</b>	<b>40.388</b>

\* The allocation of Upstream Lighting CFL savings into Residential and Low-income Upstream Lighting was updated based on evaluation research Navigant conducted in Program Year 6. The research determined that 0% of CFL bulbs were sold to commercial customers and 4.9% of CFLs and 2.3% of LEDs were sold to low income customers.

## 4 Summary of Finances

### 4.1 Portfolio Level Expenditures

Table 4-1: Summary of Portfolio Finances – February 29, 2016

	Quarter 3 (\$000)	PYTD (\$000)	Phase II (\$000)
EDC Incentives to Participants	\$1,868	\$4,608	\$17,468
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>1,868</b>	<b>4,608</b>	<b>17,468</b>
Design & Development	0	0	239
Administration, Management and Technical Assistance <sup>[1]</sup>	2,324	7,212	26,791
Marketing	0	7	979
<b>Subtotal EDC Implementation Costs</b>	<b>2,324</b>	<b>7,219</b>	<b>28,009</b>
EDC Evaluation Costs	384	895	2,283
SWE Audit Costs	0	225	1,900
<b>Total EDC Costs<sup>[2]</sup></b>	<b>4,576</b>	<b>12,947</b>	<b>49,660</b>
Participant Costs <sup>[3]</sup>			
<b>Total TRC Costs<sup>[4]</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-2: Summary of Program Finances – Residential Energy Efficiency – February 29, 2016\***

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$1,019	\$2,099	\$5,904
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>1,019</b>	<b>2,099</b>	<b>5,904</b>
Design & Development	0	0	52
Administration, Management and Technical Assistance <sup>[1]</sup>	761	1,764	7,701
Marketing	0	2	967
<b>Subtotal EDC Implementation Costs</b>	<b>761</b>	<b>1,766</b>	<b>8,720</b>
EDC Evaluation Costs	78	182	473
SWE Audit Costs	0	46	399
<b>Total EDC Costs<sup>[2]</sup></b>	<b>1,858</b>	<b>4,093</b>	<b>15,496</b>
<b>Participant Costs<sup>[3]</sup></b>			
<b>Total TRC Costs<sup>[4]</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only.			
Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

\* All Upstream Lighting program costs for PY7 are currently shown in the Summary of Program Finances table for REEP. The final report for PY7 will disaggregate these costs to REEP and LIEEP, as appropriate.

**Table 4-3: Summary of Program Finances – Schools Energy Pledge – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>0</b>	<b>0</b>
Design & Development	0	0	6
Administration, Management and Technical Assistance <sup>(1)</sup>	35	87	413
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>35</b>	<b>87</b>	<b>419</b>
EDC Evaluation Costs	10	23	60
SWE Audit Costs	0	6	48
<b>Total EDC Costs<sup>(2)</sup></b>	<b>45</b>	<b>116</b>	<b>527</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

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**Table 4-4: Summary of Program Finances – Appliance Recycling Program – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$0	\$45	\$230
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>45</b>	<b>230</b>
Design & Development	0	0	6
Administration, Management and Technical Assistance <sup>(1)</sup>	18	279	1,131
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>18</b>	<b>279</b>	<b>1,137</b>
EDC Evaluation Costs	9	22	56
SWE Audit Costs	0	6	47
<b>Total EDC Costs<sup>(2)</sup></b>	<b>27</b>	<b>352</b>	<b>1,470</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-5: Summary of Program Finances – Residential Home Energy Reporting – February 29, 2016**

	Quarter 3 (\$000)	PYTD (\$000)	Phase II (\$000)
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>0</b>	<b>0</b>
Design & Development	0	0	0
Administration, Management and Technical Assistance <sup>(1)</sup>	155	363	1,990
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>155</b>	<b>363</b>	<b>1,990</b>
EDC Evaluation Costs	0	0	0
SWE Audit Costs	0	0	0
<b>Total EDC Costs<sup>(2)</sup></b>	<b>155</b>	<b>363</b>	<b>1,990</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

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**Table 4-6: Summary of Program Finances – Residential Whole House Audit Retrofit – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>0</b>	<b>0</b>
Design & Development	0	0	0
Administration, Management and Technical Assistance <sup>[1]</sup>	51	313	663
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>51</b>	<b>313</b>	<b>663</b>
EDC Evaluation Costs	5	11	21
SWE Audit Costs	0	3	10
<b>Total EDC Costs<sup>[2]</sup></b>	<b>56</b>	<b>327</b>	<b>694</b>
Participant Costs <sup>[3]</sup>			
<b>Total TRC Costs<sup>[4]</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-7: Summary of Program Finances – Low Income Energy Efficiency – February 29, 2016\***

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$5	\$16	\$488
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>5</b>	<b>16</b>	<b>488</b>
Design & Development	0	0	15
Administration, Management and Technical Assistance <sup>(1)</sup>	47	193	1,151
Marketing	0	5	5
<b>Subtotal EDC Implementation Costs</b>	<b>47</b>	<b>198</b>	<b>1,171</b>
EDC Evaluation Costs	24	56	143
SWE Audit Costs	0	14	119
<b>Total EDC Costs<sup>(2)</sup></b>	<b>76</b>	<b>284</b>	<b>1,921</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

\* All Upstream Lighting program costs for PY7 are currently shown in the Summary of Program Finances table for REEP. The final report for PY7 will disaggregate these costs to REEP and LIEEP, as appropriate.

**Table 4-8: Summary of Program Finances – Commercial Umbrella – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$63	\$348	\$1,104
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>63</b>	<b>348</b>	<b>1,104</b>
Design & Development	0	0	10
Administration, Management and Technical Assistance <sup>(1)</sup>	200	434	1,269
Marketing	0	0	7
<b>Subtotal EDC Implementation Costs</b>	<b>200</b>	<b>434</b>	<b>1,286</b>
EDC Evaluation Costs	12	28	78
SWE Audit Costs	0	7	68
<b>Total EDC Costs<sup>(2)</sup></b>	<b>275</b>	<b>817</b>	<b>2,536</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-9: Summary of Program Finances – Healthcare – February 29, 2016**

	Quarter 3 (\$000)	PYTD (\$000)	Phase II (\$000)
EDC Incentives to Participants	\$0	\$11	\$1,165
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>11</b>	<b>1,165</b>
Design & Development	0	0	13
Administration, Management and Technical Assistance <sup>1</sup>	14	63	173
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>14</b>	<b>63</b>	<b>186</b>
EDC Evaluation Costs	21	49	127
SWE Audit Costs	0	13	107
<b>Total EDC Costs<sup>2</sup></b>	<b>35</b>	<b>136</b>	<b>1,585</b>
Participant Costs <sup>3</sup>			
<b>Total TRC Costs<sup>4</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only.			
Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

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**Table 4-10: Summary of Program Finances – Industrial Umbrella – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$0	\$11	\$156
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>11</b>	<b>156</b>
<b>Design &amp; Development</b>	<b>0</b>	<b>0</b>	<b>4</b>
Administration, Management and Technical Assistance <sup>[1]</sup>	10	36	129
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>10</b>	<b>36</b>	<b>133</b>
<b>EDC Evaluation Costs</b>	<b>6</b>	<b>14</b>	<b>36</b>
<b>SWE Audit Costs</b>	<b>0</b>	<b>4</b>	<b>31</b>
<b>Total EDC Costs<sup>[2]</sup></b>	<b>16</b>	<b>65</b>	<b>356</b>
<b>Participant Costs<sup>[3]</sup></b>			
<b>Total TRC Costs<sup>[4]</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-11: Summary of Program Finances – Chemicals – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$454	\$499	\$540
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>454</b>	<b>499</b>	<b>540</b>
Design & Development	0	0	9
Administration, Management and Technical Assistance <sup>(1)</sup>	594	863	1,243
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>594</b>	<b>863</b>	<b>1,252</b>
EDC Evaluation Costs	14	33	84
SWE Audit Costs	0	9	72
<b>Total EDC Costs<sup>(2)</sup></b>	<b>1,062</b>	<b>1,404</b>	<b>1,948</b>
<b>Participant Costs<sup>(3)</sup></b>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only.			
Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-12: Summary of Program Finances – Mixed Industrial – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$454	\$499	\$540
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>454</b>	<b>499</b>	<b>540</b>
Design & Development	0	0	9
Administration, Management and Technical Assistance <sup>(1)</sup>	594	863	1,243
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>594</b>	<b>863</b>	<b>1,252</b>
EDC Evaluation Costs	14	33	84
SWE Audit Costs	0	9	72
<b>Total EDC Costs<sup>(2)</sup></b>	<b>1,062</b>	<b>1,404</b>	<b>1,948</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

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**Table 4-13: Summary of Program Finances – Office Buildings – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$24	\$363	\$2,263
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>24</b>	<b>363</b>	<b>2,263</b>
Design & Development	0	0	36
Administration, Management and Technical Assistance <sup>(1)</sup>	53	507	1,749
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>53</b>	<b>507</b>	<b>1,785</b>
EDC Evaluation Costs	39	90	267
SWE Audit Costs	0	23	243
<b>Total EDC Costs<sup>(2)</sup></b>	<b>116</b>	<b>983</b>	<b>4,558</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-14: Summary of Program Finances – Primary Metals – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$34	\$223	\$1,089
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>34</b>	<b>223</b>	<b>1,089</b>
Design & Development	0	0	24
Administration, Management and Technical Assistance <sup>1)</sup>	25	225	2,346
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>25</b>	<b>225</b>	<b>2,370</b>
EDC Evaluation Costs	39	91	230
SWE Audit Costs	0	23	193
<b>Total EDC Costs<sup>2)</sup></b>	<b>98</b>	<b>562</b>	<b>3,882</b>
Participant Costs <sup>3)</sup>			
<b>Total TRC Costs<sup>4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only.			
Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-15: Summary of Program Finances – Government (Non-Profit & Education) – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$102	\$569	\$2,857
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>102</b>	<b>569</b>	<b>2,857</b>
Design & Development	0	0	42
Administration, Management and Technical Assistance <sup>(1)</sup>	40	190	1,268
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>40</b>	<b>190</b>	<b>1,310</b>
EDC Evaluation Costs	56	131	355
SWE Audit Costs	0	33	307
<b>Total EDC Costs<sup>(2)</sup></b>	<b>198</b>	<b>923</b>	<b>4,829</b>
<b>Participant Costs<sup>(3)</sup></b>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only.			
Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

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**Table 4-16: Summary of Program Finances – Retail Stores – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$0	\$172	\$1,038
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>172</b>	<b>1,038</b>
Design & Development	0	0	14
Administration, Management and Technical Assistance <sup>(1)</sup>	20	109	749
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>20</b>	<b>109</b>	<b>763</b>
EDC Evaluation Costs	23	53	136
SWE Audit Costs	0	14	115
<b>Total EDC Costs<sup>(2)</sup></b>	<b>43</b>	<b>348</b>	<b>2,052</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-17: Summary of Program Finances – Small Commercial Direct Install – February 29, 2016**

	Quarter 3 (\$000)	PYTD (\$000)	Phase II (\$000)
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>0</b>	<b>0</b>
Design & Development	0	0	0
Administration, Management and Technical Assistance <sup>(1)</sup>	12	683	2,361
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>12</b>	<b>683</b>	<b>2,361</b>
EDC Evaluation Costs	22	52	89
SWE Audit Costs	0	13	52
<b>Total EDC Costs<sup>(2)</sup></b>	<b>34</b>	<b>748</b>	<b>2,502</b>
Participant Costs <sup>(3)</sup>			
<b>Total TRC Costs<sup>(4)</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only. Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

**Table 4-18: Summary of Program Finances – Multi-Family Housing Retrofit – February 29, 2016**

	<b>Quarter 3 (\$000)</b>	<b>PYTD (\$000)</b>	<b>Phase II (\$000)</b>
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies			
<b>Subtotal EDC Incentive Costs</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Design &amp; Development</b>	<b>0</b>	<b>0</b>	<b>0</b>
Administration, Management and Technical Assistance <sup>[1]</sup>	67	791	1,407
Marketing	0	0	0
<b>Subtotal EDC Implementation Costs</b>	<b>67</b>	<b>791</b>	<b>1,407</b>
<b>EDC Evaluation Costs</b>	<b>12</b>	<b>27</b>	<b>46</b>
<b>SWE Audit Costs</b>	<b>0</b>	<b>7</b>	<b>28</b>
<b>Total EDC Costs<sup>[2]</sup></b>	<b>79</b>	<b>825</b>	<b>1,481</b>
<b>Participant Costs<sup>[3]</sup></b>			
<b>Total TRC Costs<sup>[4]</sup></b>			
<b>NOTES</b>			
<i>Per PUC direction, TRC inputs and calculations are required in the Annual Report only and should comply with the 2013 Total Resource Cost Test Order approved August 30, 2012.</i>			
<sup>1</sup> Includes the administrative CSP (rebate processing), tracking system, general administration and clerical costs, EDC program management, CSP program management, general management oversight major accounts and technical assistance			
<sup>2</sup> Per the 2013 Total Resource Cost Test Order – Total EDC Costs, here, refer to EDC incurred expenses only.			
Total EDC Costs = Subtotal EDC Incentive Costs + Subtotal EDC Implementation Costs + EDC Evaluation Costs + SWE Audit Costs.			
<sup>3</sup> Per the 2013 Total Resource Cost Test Order – Net participant costs; in PA, the costs of the end-use customer.			
<sup>4</sup> Total TRC Costs = Total EDC Costs + Participant Costs			

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