

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

**For the Period  
December 1, 2012 through February 28, 2013  
Program Year 4, Quarter 3**

For Pennsylvania Act 129 of 2008  
Energy Efficiency and Conservation Plan

Prepared by West Penn Power Company and ADM Associates, Inc.

For

West Penn Power Company  
Docket No. M-2009-2093218

April 15, 2013

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## Acronyms

C & I	Commercial and Industrial
CATI	Computer-Aided Telephone Interview
CFL	Compact Fluorescent Lamp
CPITD	Cumulative Program/Portfolio Inception to Date
CPITD-Q	Cumulative Program/Portfolio Inception through Current Quarter
CVR	Conservation Voltage Reduction
CVRf	Conservation Voltage Reduction factor
DLC	Direct Load Control
EDC	Electric Distribution Company
EE&C	Energy Efficiency and Conservation
EM&V	Evaluation, Measurement, and Verification
HVAC	Heating, Ventilating, and Air Conditioning
IQ	Incremental Quarter
kW	Kilowatt
kWh	Kilowatt-hour
LED	Light Emitting Diode
LIEEP	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
PUC	Public Utility Commission
PY1	Program Year 2009
PY2	Program Year 2010
PY3	Program Year 2011
PY3TD	Program/Portfolio Year Three 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. Each EDC submitted energy efficiency and conservation (EE&C) plans—which were approved by the Pennsylvania Public Utility Commission (PUC)—pursuant to these goals. This report documents the progress and effectiveness of the EE&C accomplishments for West Penn Power Company (“West Penn” or “Company”) in the third quarter of Program Year 4 (PY4), defined as December 1, 2012 through February 28, 2013, as well as the cumulative accomplishments of the programs since inception.

### 1.1 Summary of Achievements

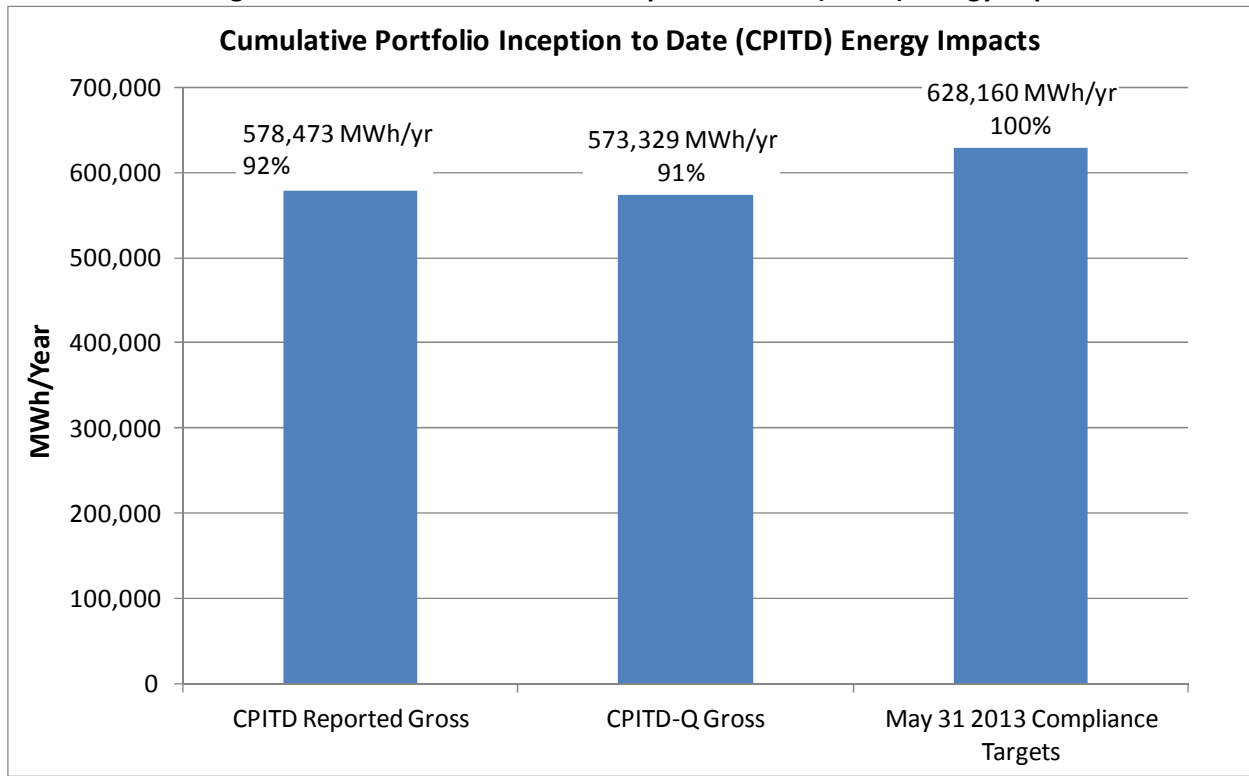
West Penn has achieved 92 percent of the May 31, 2013 energy savings compliance target, based on cumulative program inception to date (CPITD) reported gross energy savings<sup>1</sup>, and 91 percent of the energy savings compliance target, based on verified CPITD gross energy savings through Plan Year 3 and PYTD gross energy savings achieved through Quarter 3 (CPITD-Q)<sup>2</sup>, as shown in **Figure 1-1**.

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<sup>1</sup> CPITD Reported Gross Savings = CPITD Reported Gross Savings through PY3 + PYTD Reported Gross Savings. All savings reported as CPITD reported gross savings are computed this way.

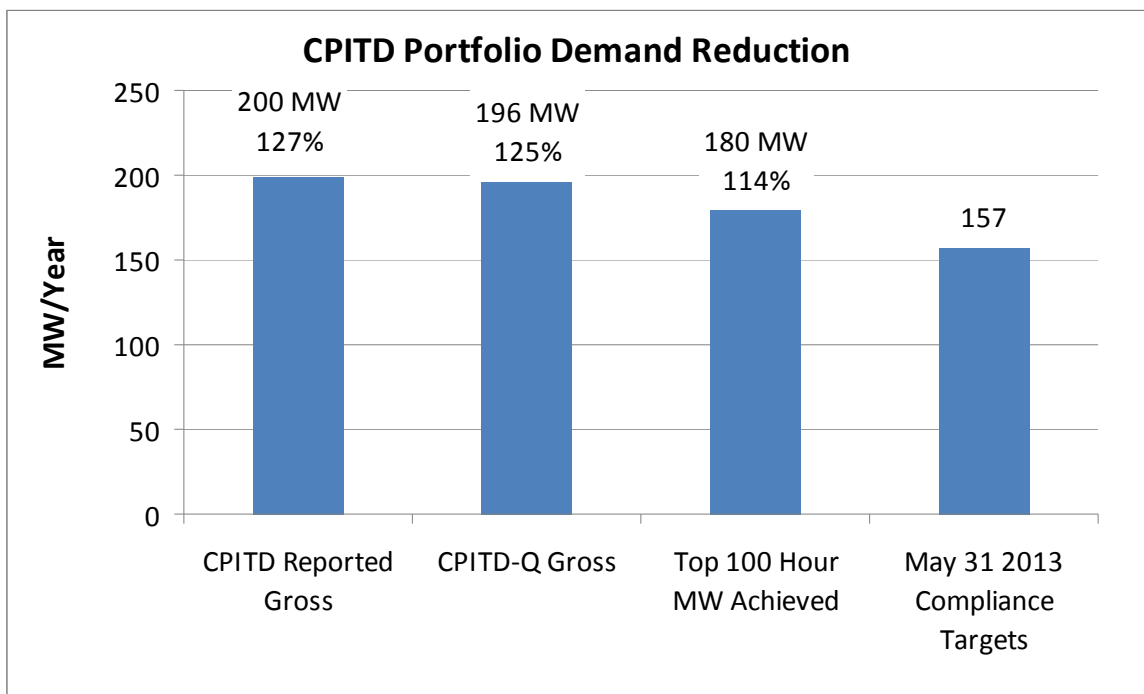
<sup>2</sup> CPITD-Q Gross Savings = CPITD Verified Gross Savings through PY3 + PYTD Reported Gross Savings. All savings reported as CPITD-Q gross savings are computed this way. CPITD-Q savings provide the best available estimate of savings achieved through the current quarter. CPITD Verified Gross Savings will be reported in the annual report.

**Figure 1-1 Cumulative Portfolio Inception to Date (CPITD) Energy Impacts**



Based on preliminary results, West Penn has achieved 180 MW of load reductions during the Top 100 hours of 2012, representing 114 percent of the May 31, 2013 demand reduction compliance target as shown in **Figure 1-2**<sup>3</sup>. Please note that this includes contributions from energy efficiency programs contributions from demand reduction programs operated during the summer of 2012. When including all measures installed to date, the Company achieved 196 MW of cumulative peak load reductions based on verified CPITD reported gross demand reductions through Plan Year 3 and PYTD gross demand reductions achieved through Quarter 3 (CPITD-Q).

**Figure 1-2. CPITD Portfolio Demand Reduction<sup>4</sup>**



<sup>3</sup> These figures include contributions from energy efficiency programs through PY4Q3. The peak demand coincidence factor for all residential CFLs distributed CPITD has been updated to 8.8% from 5.0%. The figures also include line loss factors, calculated as functions of actual and reconstructed (for Act 129 “addbacks”) loads for each hour.

<sup>4</sup> CPITD reported and CPITD-Q numbers include line losses and impacts for all programs through PY4Q3. The top 100 hour achieved MW reflect preliminary verified values during the top 100 hours of the summer of 2012 (defined as June 1 through September 30, 2012), and include impacts of demand response programs, line losses, impacts from EE measures installed prior to the top 100 hours.

There are 10 measures available to the low-income sector. The measures offered to the low-income sector therefore comprise 24 percent of the total measures offered. As required by Act 129, this exceeds the fraction of the electric consumption of the utility’s low-income households divided by the total electricity consumption in the West Penn Power territory. (10 percent).<sup>5</sup> The CPITD reported gross energy savings achieved in the low-income sector is 58,135 MWh/yr; this is 11 percent of the CPITD total portfolio reported gross energy savings<sup>6</sup>.

West Penn achieved 149 percent of the May 31, 2013, energy reduction compliance target for government, nonprofit and institutional sector, based on CPITD reported gross energy savings, and 144 percent of the target based on verified CPITD gross energy savings through Plan Year 3 and PYTD gross energy savings achieved through Quarter 3 (CPITD-Q)<sup>7</sup>, as shown in Figure 1-3.

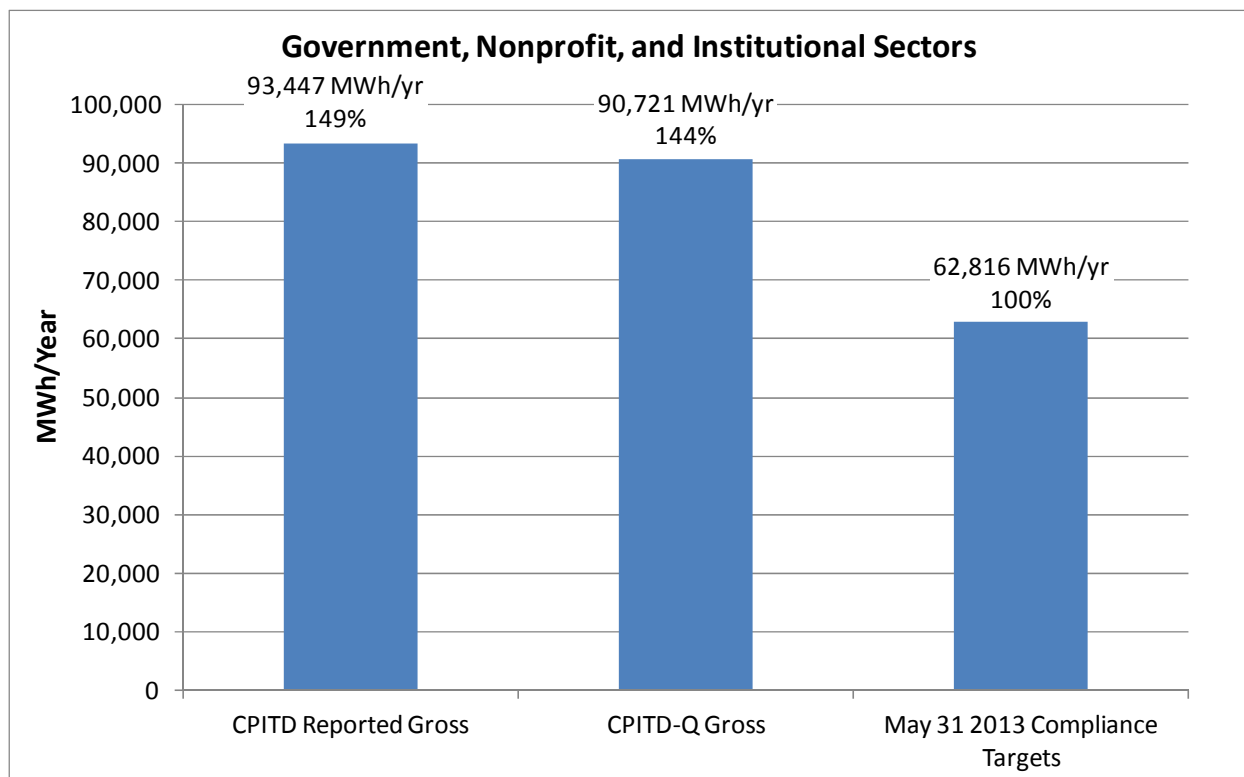
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<sup>5</sup> Act 129 includes a provision requiring electric distribution companies to offer a number of energy efficiency measures to low-income households that are “proportionate to those households’ share of the total energy usage in the service territory.” 66 Pa.C.S. §2806.1(b)(i)(G). The legislation contains no provisions regarding targets for participation, or energy or demand savings.

<sup>6</sup> The Energy Savings achieved in the low-income sector in the PY4Q2 report are calculated according to the procedure in the PY3 Annual report (page 14). This is a shift from the previous calculation procedure that was used for the PY4Q1 report, and the new methodology results in smaller claimed impacts, thus the adjustment from the PY4Q1 report.

<sup>7</sup>Reference footnote 3 on page 4.

**Figure 1-3 Government, Nonprofit, and Institutional Sectors**



## 1.2 Program Updates and Findings

On October 28, 2011, the Commission approved West Penn’s interim Amended Plan filed in Docket No. M-2009-2093218. The Amended Plan aligned WPP’s Energy Efficiency and Conservation (“EE&C”) Plan with the other FirstEnergy Pennsylvania Utilities.

- **Residential Appliance Turn-In Program:** No changes to this program during the PY4Q3
- **Residential Energy Efficient Products Program:** No changes to this program during the PY4Q3.
- **Residential Energy Efficiency HVAC Equipment Program:** No changes to this program during the PY4Q3.
- **Residential Home Performance Program:** There are four components to this program: 1) The online analyzer; 2) walk thru audits; 3) whole house audits; and, 4) behavior modification. There were no changes to the first three components of this program. As of this writing, the Behavior Modification Program CSP is compiling preliminary savings calculations.
- **Critical Peak Rebate (CPR) Rate:** No changes to this program during the PY4Q3.
- **Low Income Energy Efficient Program (LIEEP):** No changes to this program during PY4Q3.
- **Joint Utility Usage Management Program:** WPP and the Natural Gas Distribution Company’s (NGDC’s) within WPP’s service territory regularly exchange scheduled work lists to provide comprehensive whole house measures for customers that qualify for both companies’ program. When a customer for both utilities cannot be scheduled at the same time, each utility will



schedule a work time that is convenient for the customer. WPP began to realize savings results from the Low-Income, Low-Usage (LILU) mailing of energy efficiency kits that was completed in November 2012.

- **Commercial & Industrial Equipment Program – Small:** No changes to this program during PY4 Q3.
- **Time of Use (TOU) with Critical Peak Pricing (CPP) Rate:** No changes to this program during PY4 Q3.
- **Commercial & Industrial Equipment Program – Large:** No changes to this program during PY4 Q3.
- **Customer Load Response:** This program was operated between June 1 and September 30, 2012. As of this writing, the gross / net impact evaluation effort is underway.
- **Customer Resources Demand Response Program:** This program was operated between June 1 and September 30, 2012. As of this writing, the gross / net impact evaluation effort is underway.
- **Distributed Generation:** This program was removed from West Penn’s Plan under docket M-2009-2093218 approved by the Commission on June 14, 2012.
- **Conservation Voltage Reduction Program:** No changes to this program during the PY4Q3.
- **Governmental & Institutional Program:** No changes to this program during PY4 Q3.

### 1.3 Evaluation Updates and Findings

- **Residential Appliance Turn-In Program**

The evaluation methodology for this program is unchanged from PY3. Preliminary realization rates have been constructed from information gained from the evaluation effort conducted for PY3. These will be updated as PY4 evaluation survey results become available.

**Table 1.3.1 Residential Appliance Turn-In Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
Refrigerator	Tracking System/TRM Review Verification Surveys	ADM has conducted preliminary desk reviews. First sample will be drawn from the Q1 and Q2 populations.
Freezer		
Room air conditioner		

- **Residential Energy Efficient Products Program**

The sampling scheme for this program includes several qualitative strata for lighting and appliances. Evaluation activities for the strata are listed below.

**Table 1.3.2 Residential Energy Efficient Products Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
CFL Buydowns	Invoice + calculation review	PY4 evaluation activities to date include calculation and ex-ante reviews and assignment of preliminary realization rate based on desk review and application of updated TRM protocols.
CFL Giveaways	Invoice + calculation review	
Appliances	Invoice + calculation review (large sample, stratified by appliance type) On-Site inspection (smaller sample, focus on clothes washers)	

- **Residential Energy Efficient HVAC Equipment Program**

The sampling scheme for this program includes four qualitative strata. Evaluation activities for the strata are listed below. Preliminary realization rates are based on information gained from the PY3 evaluation. These will be updated as PY4 evaluation results become available.

**Table 1.3.3 Residential Energy Efficient HVAC Equipment Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
Air Source Heat Pump	Invoice + calculation review (large sample) On-Site inspection (smaller sample)	PY4 evaluation activities to date include calculation and ex-ante reviews and assignment of preliminary realization rate based on desk review and application of updated TRM protocols. The average efficiencies and capacities from the PY3 evaluation are used to generate preliminary realization rates for this program.
Ground Source Heat Pump	Invoice + calculation review (large sample) On-Site inspection (smaller sample)	
Central Air Conditioning	Invoice + calculation review (large sample) On-Site inspection (smaller sample)	
HVAC tune-ups	Invoice + calculation review, and telephone verification surveys	

- **Residential Home Performance Program**

The Residential Home Performance Program assists households in identifying energy savings opportunities through self-administered and professional walk-through home audits and providing customers with CFLs and other low cost energy savings measures. The program promotes CFL giveaways through several CFL promotional channels, including Opt-in, Smart Meter and School Kits. The program also includes a behavioral modification and education component designed to provide customers with information about their energy usage and low cost ways they can reduce usage.

**Table 1.3.4 Residential Home Performance Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
Conservation Kits	Survey representative sample of participants	ADM has conducted desk reviews of the tracking data and has constructed preliminary realization rates that consider historical “in service rates” and successful delivery rates, as well as changes in the TRM protocols.
Direct Install of Low-Cost Measures	Sample once for entire PY4, conduct engineering review and verification surveys.	ADM has conducted preliminary desk reviews. Sample will be drawn shortly after PY2Q2 report is filed.
Behavior Modification	Billing Analysis	M&V plans are completed and initial data requests have been made by the M&V team.

- **Critical Peak Rebate (CPR) Rate**

Impact evaluation for this program is complete on a preliminary basis<sup>8</sup>, but As of this writing the regression models and baseline estimation schemes are undergoing final quality assurance steps. The initial realization rate is significantly higher than 100%.

- **Limited Income Energy Efficient Program (LIEEP)**

This program is separated into two strata for evaluation purposes. Evaluation activities are similar for the two strata and are described in the table below.

<sup>8</sup> The program’s impacts at the hourly level have been verified. However the top 100 hour definitions and the hourly line loss factors may change based on the additional contributions from energy efficiency projects that are not yet evaluated.

**Table 1.3.5 Limited Income Energy Efficient Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
In-home services	Invoice + calculation review and telephone verification surveys	ADM has conducted preliminary desk reviews. Sample will be drawn shortly after PY2Q2 report is filed.
Conservation Kits	Invoice + calculation review and telephone verification surveys	ADM has conducted preliminary desk reviews. Sample will be drawn shortly after PY2Q2 report is filed.

- **Joint Utility Usage Management Program**

This program is separated into two strata for evaluation purposes. Evaluation activities are similar for the two strata and are described in the table below.

**Table 1.3.6 Joint Utility Usage Management Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
JUUMP Comprehensive Audits	Study feasibility of billing analysis and conduct billing analysis for PY4 if practicable.	ADM has conducted preliminary tracking data reviews.
Conservation Kits	Invoice + calculation review and telephone verification surveys	ADM has conducted preliminary tracking data reviews.

- **Commercial & Industrial Equipment Program – Small**

This program offers energy efficiency measures to small commercial/industrial customers. The impact evaluation utilizes stratified sampling. First, the population is stratified into qualitative strata that consist of standardized measure groups as listed below. Each qualitative stratum may contain several quantitative strata based on the expected magnitude of the impacts. The sample sizes are based on past program experience regarding the variability of the realization rates for sampled projects.

**Table 1.3.6 Commercial & Industrial Equipment Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
“Lighting for Business” Applications	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations. Desk review completed for C/I CFL kits.
HVAC and Prescriptive Motors	Sample for first 2 quarters, then for each subsequent quarter. Conduct on-sites and analyses as required.	First sample to be drawn from Q1 and Q2 populations. ADM has conducted rebate application/ tracking and reporting reviews for a direct install program component.
Custom	Sample for first 2 quarters, then for each subsequent quarter. Conduct on-sites and analyses as required.	First sample to be drawn from Q1 and Q2 populations.

- **Time of Use (TOU) with Critical Peak Pricing (CPP) Rate**

This program had no participation; no impact evaluation will be performed.

- **Commercial & Industrial Equipment Program – Large**

This program offers similar measures as the Small C/I and Government Equipment programs. The evaluation approach for this program is similar to the one employed for the Small C/I program.

**Table 1.3.7 Commercial & Industrial Equipment Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
“Lighting for Business” Applications	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations.
Prescriptive HVAC, Motor, and Refrigeration Applications	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations. ADM has conducted rebate application/ tracking and reporting reviews for a direct install program component.
Custom Applications	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations. Some on/site and analysis work completed for two custom projects with projected impacts above the threshold for the “certainty” stratum.

- **Customer Load Response**

Impact evaluation for this program is complete on a preliminary basis<sup>9</sup>. The evaluation effort involved stratified sampling and inspection of the hourly demand reduction calculations for selected projects. Projects that have base load estimation protocols accepted by and registered by PJM are evaluated on the basis of those protocols. Projects that do not have PJM registrations are evaluated independently, though with protocols that are similar to or derivative of the PJM base load estimation protocols.

- **Customer Resources Demand Response Program**

Impact evaluation for this program is complete on a preliminary basis<sup>10</sup>. The evaluation effort involved stratified sampling and inspection of the hourly demand reduction calculations for selected projects. Projects that have base load estimation protocols accepted by and registered by PJM are evaluated on the basis of those protocols. Projects that do not have PJM registrations are evaluated with protocols that are identical to or similar to the PJM base load estimation protocols.

- **Distributed Generation**

This program had no participation; no impact evaluation will be performed.

- **Conservation Voltage Reduction Program**

The CVR program incorporates voltage regulation techniques on select distribution circuits that result in lower service voltage levels and, thus, lower the energy consumption and demand of customers. Three sets of retrofit isolation tests are planned: One in Winter 2013, one in Spring 2013, and one in Summer 2013.

- **Governmental & Institutional Program**

This program provides prescriptive and performance based incentives for the installation of cost effective energy efficient non-standard equipment through an authorized contractor network and traditional channels. The evaluation approach for this program is similar to the one employed for the other nonresidential energy efficiency programs.

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<sup>9</sup> Site-level hourly impacts verified on a preliminary basis are undergoing final quality assurance checks for a stratified sample of projects to meet  $\pm 15\%$  relative precision at the 85% confidence level. However the top 100 hour definitions and the hourly line loss factors may change based on the additional contributions from energy efficiency projects that are not yet evaluated.

<sup>10</sup> Site-level hourly impacts verified on a preliminary basis are undergoing final quality assurance checks for a stratified sample of projects to meet  $\pm 15\%$  relative precision at the 85% confidence level. However the top 100 hour definitions and the hourly line loss factors may change based on the additional contributions from energy efficiency projects that are not yet evaluated.

**Table 1.3.8 Governmental & Institutional Program Evaluation Summary**

Program Component	Evaluation Activities Planned	Evaluation Activities Status
Lighting	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations.
Street Lighting	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations.
Traffic Signals	Stratified sampling and on-site visits	First sample to be drawn from Q1 and Q2 populations.

## 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. CPITD Reported Gross Energy Savings by Program**

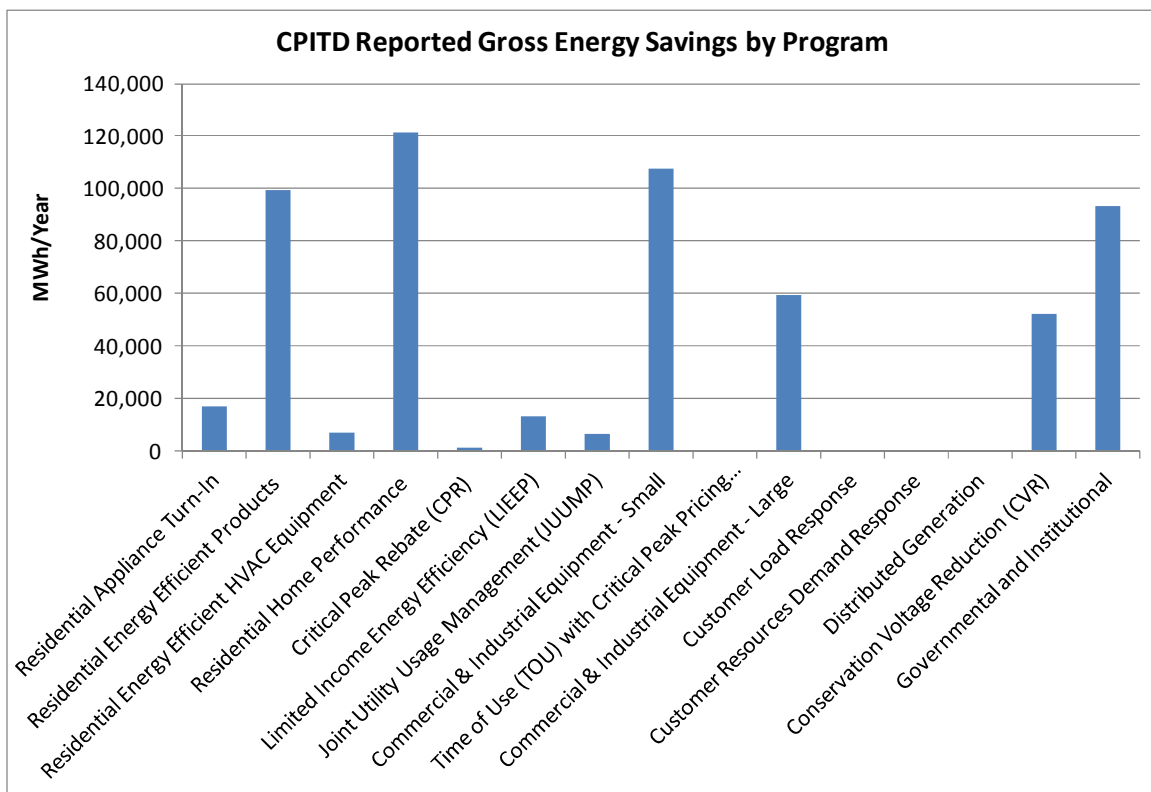
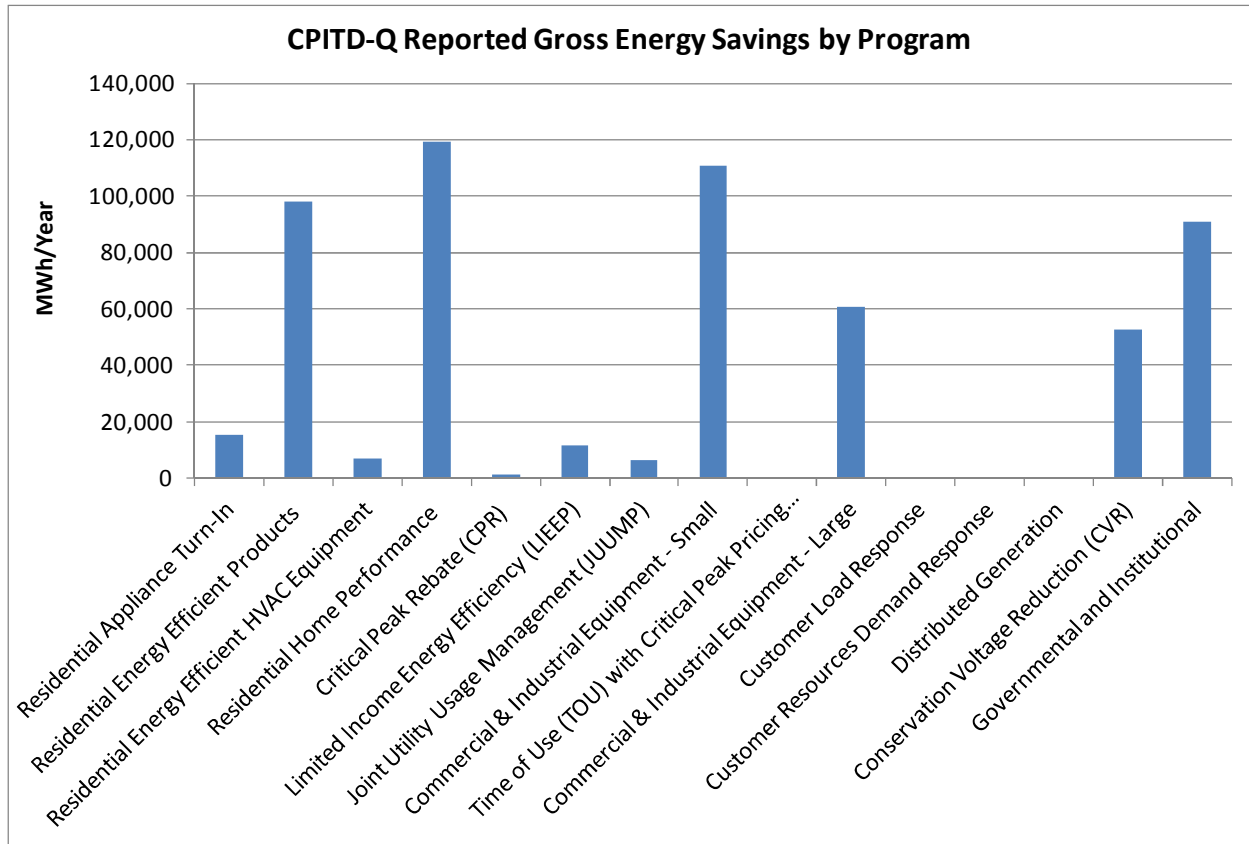


Figure 2-2. CPITD-Q Reported Gross Energy Savings by Program





A summary of energy impacts by program through the PY3 Q4 is presented in Table 2-1.

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

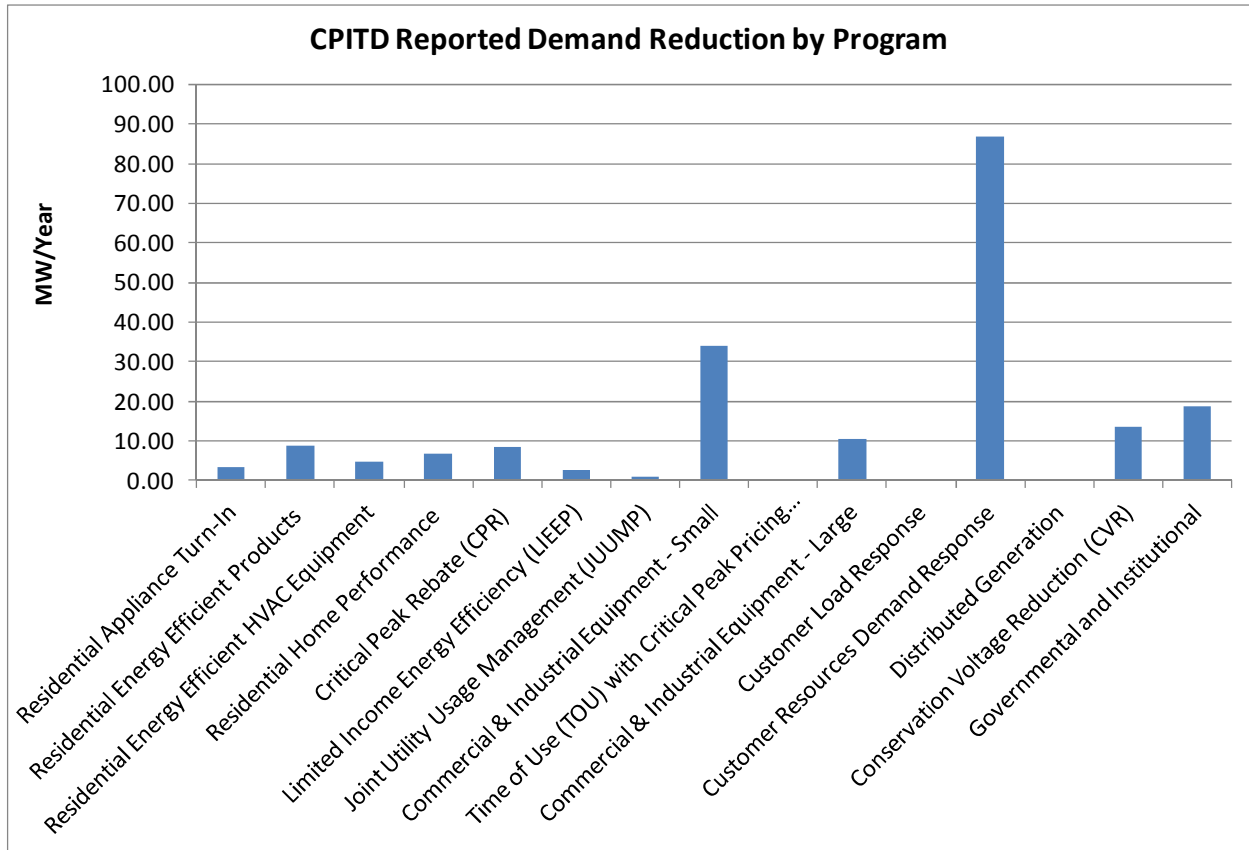
Program	Participants			Reported Gross Impact (MWh/Year)				Preliminary Realization Rate <sup>1</sup>
	IQ	PYTD	CPITD	IQ	PYTD	CPITD	CPITD-Q	PYTD
Residential Appliance Turn-In	958	4,302	10,318	1,683	7,639	17,035	15,424	77.9%
Residential Energy Efficient Products	70,893	173,661	499,617	12,694	30,473	99,473	98,176	86.5%
Residential Energy Efficient HVAC Equipment	1,376	9,263	12,736	1,184	3,532	6,767	7,011	96.6%
Residential Home Performance <sup>2</sup>	2,250	10,194	382,671	1,029	4,065	121,594	119,216	92.1%
Critical Peak Rebate (CPR)	0	23,974	23,974	0	1,060	1,060	1,060	100.0%
Limited Income Energy Efficiency (LIEEP)	0	420	10,702	0	522	13,149	11,490	100.0%
Joint Utility Usage Management (JUUMP)	3,025	4,401	8,713	1,445	2,634	6,316	6,249	98.9%
Commercial & Industrial Equipment - Small	4,139	11,201	37,351	14,351	33,113	107,515	110,795	95.0%
Time of Use (TOU) with Critical Peak Pricing (CPP)	0	0	0	0	0	0	0	n/a
Commercial & Industrial Equipment - Large	49	89	138	20,091	35,064	59,625	60,696	95.0%
Customer Load Response	0	0	0	0	0	0	0	n/a
Customer Resources Demand Response	0	155	155	0	0	0	0	n/a
Distributed Generation	0	0	0	0	0	0	0	n/a
Conservation Voltage Reduction (CVR) <sup>3</sup>	0	0	0	0	52,492	52,492	52,492	95.0%
Governmental and Institutional	70	118	1,182	4,661	8,498	93,447	90,721	100%
<b>TOTAL PORTFOLIO</b>	<b>82,760</b>	<b>237,778</b>	<b>987,557</b>	<b>57,140</b>	<b>179,091</b>	<b>578,473</b>	<b>573,329</b>	<b>93%</b>
<b>NOTES:</b>								
1. Preliminary Realization Rates are based on evaluation activities and findings conducted on a partial sample set. These realization rates are not based on a statistically significant sample and are subject to change until the full evaluation is complete at the end of the program year. In this report, the realization rates for residential programs are based on tracking system review, incorporation of TRM updates, and historical verification/in-service rates. For nonresidential programs, a preliminary placeholder of 95% is used based on historical program performance.								
2. Residential Home Performance participation includes 175,000 participants for Behavior Modification measure. No savings results were reported to date.								
3. Conservation Voltage Reduction reported energy savings is based on preliminary engineering assessment.								

### 3 Summary of Demand Impacts by Program

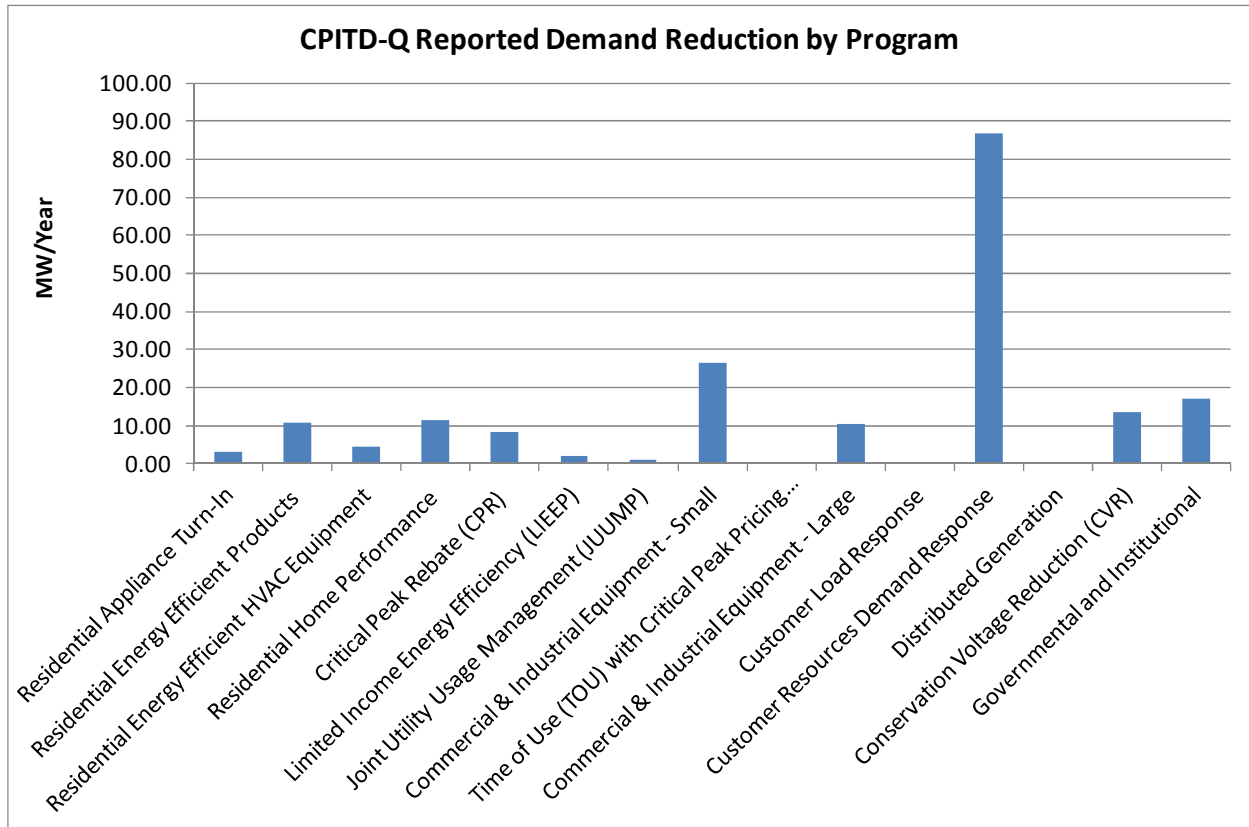
A summary of the reported demand reduction by program is presented in

Figure 3-1.

Figure 3-1. CPITD Reported Demand Reduction by Program



**Figure 3-2. CPITD-Q Reported Demand Reduction by Program**



A summary of demand reduction impacts by program through the PY4Q3 is presented in Table 3-1.

**Table 3-1. Participation and Reported Gross Demand Reduction by Program<sup>11</sup>**

Program	Participants			Reported Gross Impact (MW/Year)				Preliminary Realization Rate <sup>1</sup>
	IQ	PYTD	CPITD	IQ	PYTD	CPITD	CPITD-Q	PYTD
Residential Appliance Turn-In	958	4,302	10,318	0.23	1.28	3.32	3.09	80.3%
Residential Energy Efficient Products	70,893	173,661	499,617	0.64	1.85	8.88	10.76	150.3%
Residential Energy Efficient HVAC Equipment	1,376	9,263	12,736	0.42	3.13	4.57	4.45	76.5%
Residential Home Performance <sup>2</sup>	2,250	10,194	382,671	0.04	0.19	6.77	11.47	206.3%
Critical Peak Rebate (CPR)	0	23,974	23,974	0.00	8.50	8.50	8.50	>>100%
Limited Income Energy Efficiency (LIEEP)	0	420	10,702	0.00	0.07	2.71	2.04	100.0%
Joint Utility Usage Management (JUUMP)	3,025	4,401	8,713	0.14	0.43	1.07	1.08	98.5%
Commercial & Industrial Equipment - Small	4,139	11,201	37,351	3.21	9.35	34.12	26.58	95.0%
Time of Use (TOU) with Critical Peak Pricing (CPP)	0	0	0	0.00	0.00	0.00	0.00	n/a
Commercial & Industrial Equipment - Large	49	89	138	2.72	5.27	10.38	10.57	95.0%
Customer Load Response	0	0	0	0.00	0.00	0.00	0.00 <sup>4</sup>	n/a
Customer Resources Demand Response	0	155	155	0.00	86.72	86.72	86.72	100.0%
Distributed Generation	0	0	0	0.00	0.00	0.00	0.00	n/a
Conservation Voltage Reduction (CVR) <sup>3</sup>	0	0	0	0.00	13.64	13.64	13.64	95.0%
Governmental and Institutional	70	118	1,182	0.55	1.33	18.84	17.10	95.0%
<b>TOTAL PORTFOLIO</b>	<b>82,760</b>	<b>237,778</b>	<b>987,557</b>	<b>7.95</b>	<b>131.76</b>	<b>199.52</b>	<b>195.99</b>	<b>99%</b>

**NOTES:**

1. Preliminary Realization Rates are based on evaluation activities and findings conducted on a partial sample set. These realization rates are not based on a statistically significant sample and are subject to change until the full evaluation is complete at the end of the program year. In this report, the realization rates for residential programs are based on tracking system review, incorporation of TRM updates, and historical verification/in-service rates. For nonresidential programs, a preliminary placeholder of 95% is used based on historical program performance.
2. Residential Home Performance participation includes 175,000 participants for Behavior Modification measure. No savings results were reported to date.
3. Conservation Voltage Reduction reported demand savings is based on preliminary engineering assessment.
4. Impacts for the Customer Load Response Program are combined and reported with impacts the Customer Resources Demand Resp Prog.

<sup>11</sup> CPITD reported and CPITD-Q numbers include line losses and impacts for all programs through PY4Q3. CPITD-Q numbers and PY4 Realization rates reflect an updated 8.8% coincidence factor for CFLs.

## 4 Summary of Finances

### 4.1 Portfolio Level Expenditures

A breakdown of the portfolio finances is presented in Table 4-1.

**Table 4-1. Summary of Portfolio Finances**

	IQ (\$000)	PYTD (\$000)	CPITD (\$000)
EDC Incentives to Participants	\$4,822	\$15,671	\$39,792
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$4,822	\$15,671	\$39,793
Design & Development	\$0	\$0	\$1,787
Administration	\$546	\$966	\$4,513
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$366	\$974	\$6,059
Technical Assistance <sup>2</sup>	\$1,588	\$3,385	\$13,631
<b>Subtotal EDC Implementation Costs</b>	\$2,500	\$5,332	\$26,000
EDC Evaluation Costs	\$88	\$319	\$1,836
<b>SWE Audit Costs</b>	\$0	\$310 <sup>3</sup>	\$2,304
<b>Total EDC Costs</b>	\$7,410	\$21,633	\$69,933
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			
<sup>3</sup> SWE Audit Costs from PY4 Q1 included in PYTD.			

## 4.2 Program Level Expenditures

Program-specific finances are shown in the following tables.

**Table 4-2. Summary of Program Finances – Residential Appliance Turn-In Program**

	IQ (\$000)	PYTD (\$000)	CPITD (\$000)
EDC Incentives to Participants	\$67	\$196	\$612
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$67	\$196	\$612
Design & Development	\$0	\$0	\$0
Administration	\$3	\$6	\$134
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$19	\$79	\$910
Technical Assistance <sup>2</sup>	\$127	\$324	\$1,267
<b>Subtotal EDC Implementation Costs</b>	\$149	\$410	\$2,312
EDC Evaluation Costs	\$5	\$12	\$96
SWE Audit Costs	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$222	\$617	\$3,021
Participant Costs	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-3. Summary of Program Finances – Residential Energy Efficient Products Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$289	\$618	\$3,986
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$289	\$618	\$3,987
Design & Development	\$0	\$0	\$265
Administration	\$102	\$144	\$516
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$51	\$101	\$2,246
Technical Assistance <sup>2</sup>	\$1,241	\$1,464	\$2,320
<b>Subtotal EDC Implementation Costs</b>	\$1,393	\$1,709	\$5,347
<b>EDC Evaluation Costs</b>	\$7	\$25	\$317
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$1,689	\$2,351	\$9,649
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-4. Summary of Program Finances – Residential Energy Efficient HVAC Equipment Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$285	\$767	\$1,398
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$285	\$767	\$1,398
Design & Development	\$0	\$0	\$123
Administration	\$10	\$24	\$157
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$41	\$194	\$394
Technical Assistance <sup>2</sup>	\$(194)	\$ (7)	\$251
<b>Subtotal EDC Implementation Costs</b>	\$(142)	\$210	\$925
<b>EDC Evaluation Costs</b>	\$7	\$12	\$111
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$150	\$990	\$2,434
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			
<sup>3</sup> Negative values listed in IQ and PYTD columns reflect accounting adjustments during the quarter.			



**Table 4-5. Summary of Program Finances – Residential Home Performance Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$110	\$397	\$6,141
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$110	\$397	\$6,141
Design & Development	\$0	\$0	\$135
Administration	\$106	\$160	\$389
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$95	\$241	\$1,088
Technical Assistance <sup>2</sup>	\$(310)	\$(938)	\$3,042
<b>Subtotal EDC Implementation Costs</b>	\$(109)	\$(537)	\$4,654
<b>EDC Evaluation Costs</b>	\$7	\$13	\$168
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$7	\$(127)	\$10,963
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			
<sup>3</sup> Negative values listed in IQ and PYTD columns reflect accounting adjustments during the quarter.			

**Table 4-6. Summary of Program Finances – Critical Peak Rebate (CPR) Rate**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$0	\$513	\$513
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$0	\$513	\$513
Design & Development			\$6
Administration	\$4	\$18	\$89
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$0	\$0	\$179
Technical Assistance <sup>2</sup>	\$1	\$89	\$121
<b>Subtotal EDC Implementation Costs</b>	\$5	\$107	\$395
<b>EDC Evaluation Costs</b>	\$7	\$25	\$43
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$13	\$645	\$952
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-7. Summary of Program Finances – Limited Income Energy Efficiency Program (LIEEP)**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$0	\$(693)	\$6,329
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$0	\$(693)	\$6,329
Design & Development	\$0	\$0	\$40
Administration	\$15	\$25	\$331
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$1	\$(0)	\$17
Technical Assistance <sup>2</sup>	\$6	\$(24)	\$669
<b>Subtotal EDC Implementation Costs</b>	\$21	\$1	\$1,057
<b>EDC Evaluation Costs</b>	\$1	\$(0)	\$51
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$23	\$(692)	\$7,437
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			
<sup>3</sup> Negative values listed in IQ and PYTD columns reflect accounting adjustments during the quarter.			

**Table 4-8. Summary of Program Finances – Joint Utility Usage Management Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$762	\$2,343	\$2,867
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$762	\$2,343	\$2,867
Design & Development	\$0	\$0	\$25
Administration	\$69	\$134	\$307
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$3	\$5	\$19
Technical Assistance <sup>2</sup>	\$201	\$1,095	\$1,378
<b>Subtotal EDC Implementation Costs</b>	\$273	\$1,234	\$1,730
<b>EDC Evaluation Costs</b>	\$14	\$29	\$79
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$1,049	\$3,607	\$4,676
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-9. Summary of Program Finances – Commercial & Industrial Equipment Program - Small**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$760	\$1,785	\$5,070
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$760	\$1,785	\$5,070
Design & Development	\$0	\$0	\$308
Administration	\$55	\$134	\$995
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$98	\$235	\$679
Technical Assistance <sup>2</sup>	\$541	\$905	\$2,045
<b>Subtotal EDC Implementation Costs</b>	\$694	\$1,274	\$4,028
<b>EDC Evaluation Costs</b>	\$11	\$123	\$511
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$1,465	\$3,182	\$9,608
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-10. Summary of Program Finances – Time of Use (TOU) with Critical Peak Pricing (CPP) Rate**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Design & Development	\$0	\$0	\$6
Administration	\$2	\$5	\$50
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$0	\$0	\$17
Technical Assistance <sup>2</sup>	\$1	\$1	\$29
<b>Subtotal EDC Implementation Costs</b>	<b>\$3</b>	<b>\$7</b>	<b>\$103</b>
<b>EDC Evaluation Costs</b>	\$0	\$10	\$22
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$3	\$17	\$125
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-11. Summary of Program Finances – Commercial & Industrial Equipment Program – Large**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$1,146	\$1,908	\$3,806
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$1,146	\$1,908	\$3,806
Design & Development	\$0	\$0	\$667
Administration	\$20	\$71	\$638
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$37	\$99	\$283
Technical Assistance <sup>2</sup>	\$(308)	\$93	\$1,351
<b>Subtotal EDC Implementation Costs</b>	\$(251)	\$263	\$2,939
<b>EDC Evaluation Costs</b>	\$2	\$14	\$102
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$896	\$2,185	\$6,847
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			
<sup>3</sup> Negative values listed in IQ and PYTD columns reflect accounting adjustments during the quarter.			

**Table 4-12. Summary of Program Finances – Customer Load Response Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$0	\$0	\$15
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$15</b>
Design & Development	\$0	\$0	\$88
Administration	\$4	\$4	\$86
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$0	\$0	\$2
Technical Assistance <sup>2</sup>	\$2	\$7	\$49
<b>Subtotal EDC Implementation Costs</b>	<b>\$6</b>	<b>\$16</b>	<b>\$225</b>
<b>EDC Evaluation Costs</b>	<b>\$0</b>	<b>\$1</b>	<b>\$16</b>
<b>SWE Audit Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total EDC Costs</b>	<b>\$6</b>	<b>\$17</b>	<b>\$255</b>
<b>Participant Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			



**Table 4-13. Summary of Program Finances – Customer Resources Demand Response Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$1,324	\$5,376	\$5,376
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$1,324	\$5,376	\$5,376
Design & Development	\$0	\$0	\$7
Administration	\$9	\$19	\$92
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$0	\$0	\$49
Technical Assistance <sup>2</sup>	\$4	\$8	\$382
<b>Subtotal EDC Implementation Costs</b>	\$13	\$27	\$539
<b>EDC Evaluation Costs</b>	\$23	\$36	\$57
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$1,360	\$5,439	\$5,972
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-14. Summary of Program Finances – Distributed Generation Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$0	\$0	\$0
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
Design & Development	\$0	\$0	\$5
Administration	\$2	\$2	\$43
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$0	\$0	\$3
Technical Assistance <sup>2</sup>	\$1	\$1	\$28
<b>Subtotal EDC Implementation Costs</b>	<b>\$3</b>	<b>\$5</b>	<b>\$80</b>
<b>EDC Evaluation Costs</b>	<b>\$0</b>	<b>\$1</b>	<b>\$1</b>
<b>SWE Audit Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total EDC Costs</b>	<b>\$3</b>	<b>\$6</b>	<b>\$81</b>
<b>Participant Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-15. Summary of Program Finances – Conservation Voltage Reduction (CVR) Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$3	\$3	\$3
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$3	\$3	\$3
Design & Development	\$0	\$0	\$0
Administration	\$131	\$182	\$273
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$0	\$0	\$0
Technical Assistance <sup>2</sup>	\$53	\$54	\$58
<b>Subtotal EDC Implementation Costs</b>	\$184	\$236	\$332
<b>EDC Evaluation Costs</b>	\$1	\$2	\$4
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$188	\$241	\$339
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			

**Table 4-16. Summary of Program Finances – Governmental and Institutional Program**

	<b>IQ (\$000)</b>	<b>PYTD (\$000)</b>	<b>CPITD (\$000)</b>
EDC Incentives to Participants	\$77	\$2,458	\$3,677
EDC Incentives to Trade Allies	\$0	\$0	\$0
<b>Subtotal EDC Incentive Costs</b>	\$77	\$2,458	\$3,677
Design & Development	\$0	\$0	\$111
Administration	\$16	\$39	\$412
Management <sup>1</sup>	\$0	\$0	\$0
Marketing	\$21	\$18	\$170
Technical Assistance <sup>2</sup>	\$223	\$313	\$641
<b>Subtotal EDC Implementation Costs</b>	\$259	\$371	\$1,334
<b>EDC Evaluation Costs</b>	\$1	\$15	\$258
<b>SWE Audit Costs</b>	\$0	\$0	\$0
<b>Total EDC Costs</b>	\$338	\$2,844	\$5,269
<b>Participant Costs</b>	\$0	\$0	\$0
<b>Total TRC Costs</b>			
<b>Notes:</b>			
<sup>1</sup> EDC costs other than those identified explicitly.			
<sup>2</sup> Implementation Contractor Costs.			