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November 22, 2013

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

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PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

Request for Expedited Approval of Proposed Minor EE&C Plan Changes Pursuant to the June 10, 2011 Final Order in Docket No. M-2008-2069887

Metropolitan Edison Company Docket No. M-2012-2334387 Pennsylvania Electric Company Docket No. M-2012-2334392 Pennsylvania Power Company Docket No. M-2012-2334395 West Penn Power Company Docket No. M-2012-2334398

Dear Secretary Chiavetta:

Enclosed are four (4) originals (one for each docket) of the Petition for Expedited Approval of Proposed Minor Changes to the Energy Efficiency and Conservation Plans (and related exhibits) of each of the FirstEnergy Pennsylvania Utilities (Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company). Also enclosed is one (1) extra copy of each of the Companies' respective petitions (without exhibits).

Please date stamp the additional copy of these Petitions and return them to me in the enclosed, postage-prepaid envelope. Should you have any questions regarding this matter, please do not he sitate to contact me.

Very truly yours,

kag

Enclosures

cc: Parties of record

# BEFORE THE PENNSYLVANIA PUBLIC UTILITY COMMISSION

West Penn Power Company's Request for Expedited Approval of Proposed Minor Act 129 EE&C Plan Changes Pursuant to the June 10, 2011 Final Order in Docket No. M-2008-2069887

Docket No. M-2012-2334398

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PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

WEST PENN POWER COMPANY'S REQUEST FOR EXPEDITED APPROVAL OF PROPOSED MINOR EE&C PLAN CHANGES PURSUANT TO THE JUNE 10, 2011 FINAL ORDER IN DOCKET NO. M-2008-2069887

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Counsel for:

West Penn Power Company

Dated: November 22, 2013

#### INTRODUCTION

Pursuant to the June 10, 2011 Opinion and Order of the Pennsylvania Public Utility Commission ("Commission"), entered in *Energy Efficiency and Conservation Program*, Docket No. M-2008-2069887 ("June 10 Order"), West Penn Power Company ("West Penn" or "Company") hereby requests expedited approval of its proposed minor changes to certain residential and government programs included in its Act 129 Phase II Energy Efficiency and Conservation ("EE&C") Plan, which was approved on March 14, 2013 in Docket No. M-2012-2334398. Specifically, through this request, West Penn is proposing to shift to its Low Income Program budgeted funds of \$170,593, a portion of which will come from both the Company's Residential Home Performance Program ("RHP") and its Residential Energy Efficient Products Program ("EEP"). West Penn is also proposing to add a measure to its Government and Institutional Program.

A redline/revised version of the relevant portions of West Penn's currently approved EE&C Plan, including the appropriate tables and appendices, that illustrates the aforementioned changes is attached as Exhibit A. The Company is also posting, concurrent with this filing, a complete redlined version of its proposed plan on its website for public inspection.

As explained below, the proposed minor changes qualify for expedited approval as outlined in the June 10 Order. Accordingly, West Penn respectfully requests that the Commission Staff approve the proposed minor changes described herein consistent with the timelines set forth in the Commission's June 10 Order.

In support of its proposed changes, West Penn offers the following:

#### BACKGROUND

#### A. Procedural History

- 1. On November 13, 2012, West Penn, along with its sister utilities, Metropolitan Edison Company, Pennsylvania Electric Company and Pennsylvania Power Company (collectively, "Companies) each filed their respective Phase II EE&C Plans.
- On January 17, 2013 an evidentiary hearing was held before the Administrative 2. Law Judge. At the hearing, the pre-filed testimony and exhibits of all parties were admitted into evidence. In addition, the Companies entered into two stipulations, one with Comverge, Inc. ("Comverge"); the other, with Met-Ed Industrial Users Group, Penelec Industrial Customer Alliance, Penn Power Users Group and West Penn Industrial Intervenors. Both stipulations were entered into the record. The Companies also reached a settlement with the Office of Consumer Advocate. The Coalition for Affordable Utility Services and Energy Efficiency in Pennsylvania, The Community Action Association of Pennsylvania and Comverge. The terms of the settlement were entered into the record during the evidentiary hearing as "FirstEnergy Term Sheet." During the hearing, the Companies submitted oral rebuttal testimony in support of the terms included in the FirstEnergy Term Sheet and on January 28, 2013, the terms were memorialized in a Joint Petition for Full Settlement of Non-Reserved Issues ("Settlement"), which was filed with the Commission and either supported or unopposed by all parties.<sup>1</sup>
- 3. One of the provisions of the Settlement provides that:

The Companies will revise its Low Income Programs to target increased energy savings by at least 10% over the plan targets as currently proposed for low income programs. To the extent that additional funding is required to support the targeted increase in energy savings, the Companies will shift up to \$1 million in funds currently included in the general residential programs to specific low income programs, with the understanding that within 60 days of the Companies' EE&C plans being approved, the Companies will meet with Signatory Parties who are interested in low income programs to discuss the results of its evaluation to increase the energy savings achieved through the dedicated low income programs and any requirement that additional funds should be allocated to its low income programs. ... [Settlement, para. 7].

- 4. On March 14, 2013, the Commission entered an Opinion and Order, approving the Settlement and generally approving each of the Companies' respective EE&C Plans, with minor exceptions ("March 14, 2013 Order").
- 5. In compliance with the Settlement, the Companies met with interested parties to discuss opportunities identified to increase the energy savings targeted through the Companies' specific low income programs and the programs that would allow for the shifting of budget dollars to each of the Companies' respective low income programs, without adversely affecting projected plan savings or overall budgets within the residential class. The results of these meetings are being proposed through this Petition.
- 6. Further, and independent of the Settlement, West Penn desires to add an additional measure to its Government and Institutional Program that will encourage customers from this sector to retrofit or install more efficient specialized processes, equipment and applications.

<sup>&</sup>lt;sup>1</sup> As a result of the Settlement and related stipulations, the only issues that were challenged during the evidentiary hearing were those raised by UGI Utilities, Inc. - Gas Division, UGI Penn Natural Gas, Inc., and UGI Central Penn Gas, Inc. (collectively, "UGI"), which involved fuel switching.

7. Based upon the foregoing, the Company submits this Petition for approval by the Staff, pursuant to the Commission's June 10 Order.

#### B. June 10 Order

- 8. The June 10 Order provides for an alternative process for Commission review of minor changes to EE&C Plans. Under this process, Electric Distribution Companies ("EDCs") file the proposed changes with the Commission. Interested parties have 15 days to comment on the filing, with any reply comments due 10 days thereafter. Within 35 days after filing the proposed minor changes, the Commission Staff must issue a Secretarial Letter approving or disapproving some or all of the proposed changes and may also refer some or all of the proposed changes to the Office of Administrative Law Judge.
- 9. The June 10 Order requires West Penn to file sufficient documentation to support the proposed minor EE&C Plan changes, and to include the affected pages of the plan, a redlined version of the affected pages and an explanation of how the proposed minor changes affect the previously approved plan. In addition, the Commission requires an EDC, upon the filing of its petition for minor changes, to post a complete redlined version of its EE&C Plan (with proposed modifications) on its website for public inspection.
- 10. The June 10 Order allows the following to be approved through the expedited process:
  - The elimination of a measure that is underperforming, no longer viable for reasons of cost-effectiveness, savings or market penetration or has met its approved budgeted funding, participation level or amount of savings;

- The transfer of funds from one measure or program to another measure or program within the same customer class; and
- Adding a measure or changing the conditions of a measure, such as its
  eligibility requirements, technical description, rebate structure or amount,
  projected savings, estimated incremental costs, projected number of
  participants, or other conditions so long the change does not increase the
  overall costs to that customer class.
- 11. The proposed minor changes to West Penn's EE&C Plan fall within the aforementioned categories because they involve (i) the transfer of funds from one program to another program within the same customer class, (the Residential Customer Class); and (ii) the adding of a measure to the Government & Institutional Program with no increase in the overall cost to the government/educational/non-profit sector.

#### SPECIFIC CHANGES AND EXPLANATIONS FOR CHANGES

- 12. As previously explained, one of the provisions of the Settlement requires the Company "to revise its Low Income Programs to target increasing the energy savings by at least 10% over the plan targets as currently proposed for low income programs ...", provided that such a change does not adversely affect the Company's ability to achieve its statutory targets within the 2% spending cap.
- 13. West Penn gained significant experience in the implementation of its Phase I and Phase II EE&C Plans. In order to comply with the condition of the Settlement mentioned above, the Company, in collaboration with interested parties, identified additional opportunities to achieve additional energy savings through its direct low income programs. To pursue the additional opportunities, West Penn proposes to increase the budget for the Residential Low Income Program by \$170,593 and use these funds to (i) serve additional lower cost water heat and

baseload homes; (ii) add additional low cost measures; (iii) increase energy efficiency kits targeted to low energy-use homes, and (iv) target low income customers for the installation of heat pump water heaters. West Penn also proposes to provide customized Energy Usage Reports to identified low income customers in an effort to achieve additional savings with little or no effort, and to promote other potential energy savings measures and programs. The Company projects that all of these changes will generate approximately 2,138 MWh in savings.

- 14. To support the increase in budget for the Residential Low Income Program, West Penn proposes to decrease the budgets for the Residential Home Performance Program and the Residential Energy Efficient Products Program by \$93,958 and \$108,229, respectively. These budget reductions are accommodated through a reduction in administration and incentive costs of these programs, which have been revised based upon updated forecasts, and through a slight reduction in the general residential Energy Efficiency Kit and Energy Usage Report measures. These changes are expected to reduce energy savings through the RHP and EEP programs by approximately 555 and 0 MWh, respectively, with such reductions being completely offset by the increase in savings generated through the proposed modifications to the low income programs.
- 15. West Penn also proposes to add a custom measure to its Government & Institutional Program, with no change to the program projections or budget. This measure is currently available under the Company's Commercial/Industrial small and large sector programs, and encourages customers to retrofit or install more

efficient specialized processes, equipment and applications. Adding this measure to the Government & Institutional Program will not only provide additional opportunities for government/educational/non-profit sector customers to participate in the Company's program, but will also add program implementation flexibility that supports the Company in meeting its program projections.

- 16. These changes will best position West Penn to increase the energy savings expected to be achieved through its direct low income programs as contemplated in the Settlement, and should support West Penn in its attempt to achieve its Commission-adopted goal of 4.5% reduction from the low income sector and 10% reduction from the government/educational/non-profit sector.
- 17. The impact of these minor changes are summarized in Exhibit A, which consists of a table showing the proposed program unit, savings and budget changes, and a redline version of the relevant portions of West Penn's currently approved EE&C Plan, including revised Table 14, and Appendices C, D-2, D-3, D-4 and E.
- 18. These budget changes also have a negligible impact on the cost-effectiveness of the programs as summarized in Exhibit B, which includes a table summarizing the impact on cost-effectiveness of the programs based on the proposed program savings and budget changes, and will have no effect on the remainder of the Company's Phase II EE&C Plan or the residential rate as currently reflected in the Company's Rider EEC-C.<sup>2</sup>
- 19. In accordance with the June 10 Order, the Company posted, concurrent with the filing of this Petition, a redline version of its entire EE&C Plan on its website at:

<sup>&</sup>lt;sup>2</sup> While there is a slight change in the overall projected budget, the difference from that on which the current EEC-C rider is based is insignificant and, will be reconciled during the next rider filing.

https://www.firstenergycorp.com/content/customer/customer\_choice/pennsylvania/pennsylvania tariffs.html#CommissionApprovedPlans

WHEREFORE, based upon the foregoing, West Penn respectfully asks that Staff approve the proposed changes described herein in accordance with the Commission's June 10, 2011 Opinion and Order, entered in Docket No. M-2008-2069887.

Respectfully submitted,

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Dated: November 22, 2013

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# West Penn Exhibits

Case No. M-2012-2334398

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PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

#### West Penn Power - Exhibit A - Units, Savings and Budget Assessment

Program	Approved! Plan(Units	(Proposed PlantUnits	Total Unit Umpact	Approved Plan Savings (MWh))	(Rroposed (Plan Savings (MWh))	Total Savings	Approved (	Proposed; Plan Budget	Total Budget v Timpact
Energy Efficient Products Program	1,981,525	1,981,525	0	70,040	70,040	0	\$11,176,801	\$11,068,572	(\$108,229)
Home Performance Program	272,250	270,250	(2,000)	65,799	65,244	(555)	\$13,730,390	\$13,636,432	(\$93,958)
Low Income Program	Low Income Program 7,600 24,2		16,670	3,684	5,822	2,138	\$5,826,527	\$5,997,120	\$170,593
Totals	2,261,375	2,276,045	14,670	139,523	141,106	1,583	\$30,733,718	\$30,702,124	(S31,594)

#### Notes

Plan Units per Appendix D-3

<sup>2.</sup> Plan Savings per Appendix E, Table 7A for EE Products and Home Performance, and Table 16 for Low Income (Includes dedicated Low Income Energy Usage Reports)

<sup>3.</sup> Plan Budget per Appendix E, Table 6A



#### West Penn Power Company

**Energy Efficiency & Conservation Plan** 

(For the Period June 1, 2013 through May 31, 2016)

Proposed Minor EE&C Plan Changes dated November 22February 6, 2013

Docket No. M-2012-2334398



NOV 2 2 2013

PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

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implementation of this Plan is projected to generate Total Discounted Lifetime Benefits of approximately \$116 million, as shown in Table 1 located in Appendix E which results in a score on the Total Resource Cost ("TRC") test of 1.5.5

FirstEnergy has developed a successful strategy for achieving EE&C targets throughout its footprint. This strategy includes the use of outsourced vendors with expertise in program management, program marketing and program tracking and reporting. This network of contractors reports to a core team within the FirstEnergy Energy Efficiency group, which oversees the implementation, tracking and evaluation of programs and measures throughout the period the various EE&C plans are in effect. Programs are monitored for performance against projections and, if needed, adjustments are made to improve performance, including a shift of emphasis from lesser performing programs to those with more success. Rebate levels are routinely reviewed and assessed against market conditions, with modifications to rebate levels made if deemed appropriate after discussing the matter with FirstEnergy's energy efficiency consultants, contractors, vendors and stakeholders. This strategy was put in place during Phase I of Act 129 and has proven to be successful. The Company intends to continue this practice throughout Phase II.

#### 1.1.1 Summary of Proposed Minor Changes (filed November 22, 2013)

West Penn filed its Phase II EE&C Plan on November 13, 2012. Subsequent to the filing, the parties filed with the Commission a Joint Petition for Full Settlement of Non-Reserved Issues ("Settlement") on January 28, 2013. On March 14, 2013, the Commission entered an Opinion and Order, approving the Settlement and generally approving each of the Companies' respective EE&C Plans, with minor exceptions.

#### One of the provisions of the Settlement provided that:

The Companies will revise its Low Income Programs to target increased energy savings by at least 10% over the plan targets as currently proposed for low income programs. To the extent that additional funding is required to support the targeted increase in energy savings, the Companies will shift up to \$1 million in funds currently included in the general residential programs to specific low income programs, with the understanding that within 60 days of the Companies' EE&C plans being approved, the Companies will meet with Signatory Parties who are interested in low income programs to discuss the results of its evaluation to increase the energy savings achieved through the dedicated low income programs and any requirement that additional funds should be allocated to its low income programs. ... [Settlement, para, 7].

West Penn gained significant experience in the implementation of its Phase I and Phase II EE&C Plans. In order to comply with the condition of the Settlement mentioned above, the Company, in collaboration with interested parties, identified additional opportunities to achieve additional energy savings through its direct low income programs. To pursue the

<sup>&</sup>lt;sup>5</sup> See Section 8.0 for a discussion on the TRC test.

additional opportunities. West Penn proposes to increase the budget for the Residential Low Income Program by \$170,593 and use these funds to (i) serve additional lower cost water heat and baseload homes; (ii) add additional low cost measures; (iii) increase energy efficiency kits targeted to low energy-use homes, and (iv) target low income customers for the installation of heat pump water heaters. West Penn also proposes to provide customized Energy Usage Reports to identified low income customers. The Company projects that these changes will generate approximately 2,138 MWh in savings.

To support the increase in budget for the Residential Low Income Program, West Penn proposes to decrease the budgets for the Residential Home Performance Program ("RHP") and the Residential Energy Efficient Products Program ("EEP") by \$93,958 and \$108,229, respectively. These budget reductions are accommodated through a reduction in administration and incentive costs of these programs, based upon updated forecasts, and through a slight reduction in the general residential Energy Efficiency Kit and Energy Usage Report measures. These changes are expected to reduce energy savings through the RHP and EEP programs by approximately 555 and 0 MWh, respectively, with such reductions being completely offset by the increase in savings generated through the proposed modifications to the low income programs.

West Penn also proposes to add a custom measure to its Government & Institutional Program, with no change to the program projections or budget. This measure is currently available under the Company's Commercial/Industrial small and large sector programs, and encourages customers to retrofit or install more efficient specialized processes, equipment and applications. Adding this measure to the Government & Institutional Program will not only provide additional opportunities for government/educational/non-profit sector customers to participate in the Company's program, but will also add program implementation flexibility that supports the Company in meeting its program projections.

These changes will best position West Penn to increase the energy savings expected to be achieved through its direct low income programs as contemplated in the Settlement, and should support West Penn in its attempt to achieve its Commission-adopted goal of 4.5% reduction from the low income sector and 10% reduction from the government/educational/non-profit sector.

The impact of these minor changes are illustrated in revised Table 14, and Appendices C. D-2, D-3, D-4 and E of the Company's Phase II EE&C Plan. These budget changes have a negligible impact on the cost-effectiveness of the programs as illustrated in Appendix E, Tables 1 and 7, and will have no effect on the remainder of the Company's Phase II EE&C Plan or the residential rate as currently reflected in the Company's Rider EEC-C.

1.2. Summary description of process used to develop the EE&C plan and key assumptions used in preparing the plan.

#### 3.5. Governmental/Educational/Non-Profit Sector Programs. 13

The table below compares the program included in the Existing Plan with that included in the Phase II Plan, along with a program description:

Table 13: Existing & New Government Programs

Committee Commit	Description of Phase II Program (** 1995) 1997   19	Program Description
Governmental & institutional Programs	Governmental & Institutional Programs	This program provides financial incentives and support to Governmental & institutional customers for the installation of energy efficient equipment and products

The table below details each measure that is offered in the programs listed in Table 13 and whether it is an existing or new measure:

**Table 14: Government Portfolio** 

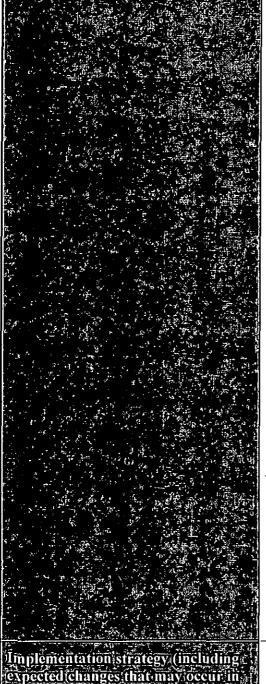
AND DESCRIPTION OF THE PERSON		Proposed Government Portfolio Proposed Government Portfolio	Salar Sa
Program	Sub Program 5. 54	Mana sure 12 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Measure Status
		LED Traffic Signats	Existing
	Outdoor Lighting	Energy Efficient Street & Area Lighting (Tanti / Util Owned)	Existing
	•	Energy Efficient Extenor Lighting (Tanil / Cust Owned)	Existing
		Energy Efficient Exterior Lighting - Non Profit	Existing
-		Linear Fluorescent Retrofits (Stndrd & Non Stndrd) - Non Profit	Existing
	Lighting	Energy Efficient Lighting Products - Non Profit	Existing
i		LED Exit Sign (Retrofit Only) - Non Profit	Existing
l l		Lighting Controls (Occupancy & Daylight) - Non Profit	Existing
	A114	Audit - Govt	Existing
	Audits	Audits w/ Direct Install Measures - Govi	Existing
i		Air Q (notice) ing - Non Projt [] []	New
أيناه والمداد	HVAC & Water Heating	Heat Pump - Norterolly	New
Governmental & Institutional		Grout d Sour 3 (2007-2017) The state of the	New
Program		PTA LANGUAGO CONTINUE	New
	-	PTHP - Non Prolit	New
		Room Air Conditioner - Non Profit	New
		Efficient Water Heater - Non Profit	New
		Refingerator Recycling - Non Profit	New
1		Freezer Recycling - Non Profit	New
	Appliances	Room Air Conditioner Recycling - Non Profit	New
	Appliances	Refrigerator - Non-Profit	New
ı		Freezer - Non Profit	New
1		EE Office Equipment - Non Profit	New
ì	A W. F	Audit - Multifarmily - Govt	Existing
ł	Multi Family	Energy Efficiency Measures - Multifamily - Govi	Existing

<sup>&</sup>lt;sup>13</sup> Additional measures may be incorporated, as appropriate, as new measures are approved for inclusion in the TRM.

The second second second second	Prop	osed Government Pordollo			
Program	Sub Program 7	Moa sure	Measure Status		
		LED Traffic Signals	Existing		
	Outdoor Lighting	Energy Efficient Street & Area Lighting (Tanti / Util Owned)	Existing		
		Energy Efficient Exterior Lighting (Tanif / Cust Owned)	Existing		
		Energy Efficient Exterior Lighting - Non Profit	Existing		
		Linear Fluorescent Retrofits (Stndrd & Non Stndrd) - Non Profit	Existing		
	Lighting	Energy Efficient Lighting Products - Non Profit	Existing		
ĺ	Ĭ	LED Exit Sign (Retrofit Only) - Non Profit	Existing		
	<u>l_</u>	Lighting Controls (Occupancy & Daytight) - Non Profit	Existing		
	Audits	Audit - Govt	Existing		
	Audits	Audits w/ Direct Install Measures - Govt	Existing		
		Air Conditioning - Non Profit	Now		
	HVAC & Water Heating	Heat Pump - Non Profit Ground Source Heat Pump - Non Profit			
Governmental & Institutional					
Program		PTAC - Non Profit	New		
		PTHP - Non Profit	New		
		Room Air Conditioner - Non Profit	Now		
		Efficient Water Heater - Non Profit	New		
		Refrigerator Recycling - Non Profit	New		
		Freezer Recycling - Non Profit	New		
	Appliances	Room Air Conditioner Recycling - Non Profit	New		
	Appliances	Refingerator - Non Prost	Now		
}	}	Freezer - Non Profit	New		
		EE Office Equipment - Non Profit	New		
	Multi Family	Audit - Multifamily - Govi	Existing		
		Energy Efficiency Measures - Multifarmily - Govi	Existing		
	Custom	Custom - Non Profit	New		

Below are the program descriptions for the Government sector included in the Phase II Plan:

#### Government & Institutional Program during which program will I June 2013 - May 2016 implemented 🚉 🚛 This is an expansion of the existing Government & Institutional Program with the addition of new measures as indicated in the overview of Section 3.5, Table 14. In addition, the consolidated program is broken into the following sub-programs: Outdoor Lighting **HVAC & Water Heating Appliances** Lighting Audits Multi Family Custom The primary objective of the program is to accelerate the adoption and increase the market share of high efficiency equipment among government and institutional customers by reducing the first cost of high efficiency equipment thereby encouraging the adoption of high efficient equipment in lieu of standard equipment at the end of the useful life of measures, or as early replacement. The ultimate goal is influencing future customer behavior toward energy efficiency measures and practices. This program will provide financial support through incentives to the government and institutional customer who implements qualifying high efficiency measures, recycles inefficient appliances or retrofit specialized processes and applications to higher efficiency processes and applications. Prescriptive and performance incentives are intended to reduce customer's capital investment for qualifying high efficiency equipment. Relevant metrics are provided in Appendices D-E. Commercial, industrial, and municipal customers of the Company meeting the Government and Institutional definitions under Act 129 with buildings or equipment in the Company's Pennsylvania service territory. Specifically the HVAC & Water Heating, Appliances, Lighting, Audits, and Multi Family Sub Programs target Non Profit customers on the Company's Non-Profit rate schedule(s). Additionally the Outdoor Lighting Sub Program targets Government customers on the Company's



family C&I customers with federal financing toward the Government Goal in the program.

Energy Efficiency Measures - Multifamily - Govt measure within the Government & Institutional Program will include a variety of items meant to introduce customer segments to energy efficient technologies that can be easily installed in the home, and serve as a gateway for broader home efficiency education. Provided items may include, but not limited to: Educational Materials, CFLs, Smart Strips, Faucet Aerators, Low Flow Shower Heads, Furnace Whistles, etc. Provided items and targeted segments are subject to change during the course of this Plan, and may initially include:

#### Efficiency Measures - Standard

Provides non-electric water heating energy efficiency measures to non-electric water heating customers.

#### Efficiency Measures - All Electric

Provides electric water heating energy efficiency measures to electric water heating customers.

#### Custom

Custom measures within the Government & Institutional Program are intended to encourage customers to retrofit to or install more efficient specialized processes, equipment, and applications in an effort to reduce both energy consumption and demand. Calculated or performance based and prescriptive incentives will be provided to customers based upon an analysis of potential energy savings on a case by case basis for upgrading less efficient specialized processes, equipment and applications (e.g. variable frequency drives, food service equipment, HVAC, process change, etc.) to high efficiency specialized processes, equipment and applications. Custom measures must be installed and operational during the term of this Plan and program.

The Company through a competitive bidding process intends to contract with a qualified Vendor on a performance basis to insure creativity and motivation toward obtaining participation and meeting the goal. The Vendor will conduct the marketing and rebate fulfillment aspects of this program. The Company expects implementation will be traditional and will attempt to align with the PA Companies for consistency across the state. Additionally providing target marketing to specific customer sectors to insure awareness in the program and enhance participation. Intra Company resources will be utilized to

#### 9. Plan Compliance Information and Other Key Issues

- 9.1. Plan Compliance Issues. 14
- 9.1.1. Describe how the plan provides a variety of energy efficiency and conservation measures and will provide the measures equitably to all classes of customers in accordance with the August 2, 2012 Implementation Order.

The Plan addresses all customer sectors with a variety of programs that offer a range of services from passive education (on-line audits) through direct installation of measures (Home Performance Audits, Low-Income Comprehensive weatherization services) and helps overcome first cost barriers through incentives to customers and trade allies. Table 2 in Section 1 presents a summary description of the programs by sector and detailed descriptions are provided in Section 3. Appendix D provides a listing of measures to all classes of customers.

9.1.2. Provide a statement delineating the manner in which the EE&C plan will achieve the requirements of the program under 66 Pa. C.S. §§ 2806.1(c).

The Phase II Plan has been developed to incorporate a comprehensive set of programs that, based on known conditions, will enable the Company to achieve the goals established under Act 129 for energy reductions, all achieved within the spending caps. See Table 2 in Appendix E for the projected energy reductions by each year and in total for the Phase II Plan.

9.1.3. Provide a statement delineating the manner in which the EE&C plan will achieve the Low-Income requirements prescribed in the August 2, 2012 Implementation Order.

There are two low-income targets under the Implementation Order. The first is to obtain a minimum of four-and-a-half percent (4.5%) of its consumption reduction requirements from the low-income sector. The Phase II Plan is designed to achieve that requirement through the combination of direct low-income customer participation in the Low-Income program. dedicated program components directly targeted to low-income customers and the proportion of low-income customer participation in the residential sector programs as assessed through tracking and surveys.

The second requirement is that each EE&C Plan include specific energy efficiency measures for households at or below 150% of the federal poverty income guidelines ("FPIG"), in proportion to that sector's share of the total energy usage in the EDC's service territory.<sup>15</sup>

<sup>&</sup>lt;sup>14</sup> These sub-sections may reference other chapters of the plan as they may restate what was included elsewhere in the plan, and are collected here only for convenience of review.

<sup>15 2012</sup> Implementation Order at 53.

This requirement is achieved by including measures that number at least proportional to low-income sector energy usage in the program targeted directly to low-income customers.<sup>16</sup>

The Low Income program includes the following services that are targeted directly to low-income customers:

- WARM Plus Component (Comprehensive weatherization services)
- WARM Extra Measures (Extra measures provided directly to customers participating in the Company's LIURP or WARM Plus programs.)
- Low Income Low Use Program (Energy Efficiency Measures provided to customers through direct mail kits or other channels)
- Primarily in Multi-Family Units (Appliance Replacement)
- Audit Multi Family, including installation of basic energy efficiency measures

The Company also will directly target customized Energy Usage Reports to identified low-income customers, with specific education, energy savings recommendations and marketing for this sector.

In accordance with the 2012 Implementation Order, the Company will complete a survey of customers participating in its residential sector programs in order to inform the savings associated with low-income customers in these programs. In the Phase II Plan the Company conservatively assumed an 11% participation level across the residential sector measures that have a limited incremental cost.

In addition to achieving 4.5% of total plan savings from the Low-Income sector, the Phase II Plan also meets the requirement for the Company to offer a proportionate number of measures to Low-Income customers. Table 15 below lists 42 measures that are provided directly at no cost to Low Income customers through the Phase II Plan. The measures listed in Tables 7, 9, 11 and 13 include a total of 72 additional non-low-income measures (without double counting measures offered in multiple sectors) resulting in a total of 113 measures, of which low-income represents 36%, significantly greater than the target percentages (all under 11%).

<sup>16</sup> Targets provided in an October 10, 2012 memo from the SWE follow:

Phase 2 Low-Income Target Proportions by EDC

EDC	Percent 2011 kWh Usage Low-Income Households vs. Total Consumption
Duquesne	8.402%
PECO	8.799%
PPL	9.950%
Met-Ed	8.787%
Penelec	10.231%
Penn Power	10.639%
West Penn Power	8.794%

**Table 15: Residential Low Income Sub-Measures** 

Dedicated to Low-Income Customers 2. 2004. M. 120
AC/Heating System Filter Replacement and Tune-Up
Air Sealing
Appliance Timers
Central Air Conditioner
CFL Torchiere Floor Lamp
CFLs
Clothes Line Installation
Clothes Washer
Dehumidifier
Door Repair or Replacement
Duct Insulation
Duct Sealing
Electric Baseboard Heater Replacement
Electric Clothes Dryer
Electric Crothes Dryer Electric Dryer Venting Repair or Replacement
Electric Furnace
Electric Heat Pump
Energy Education
Exhaust Fan Repair and Replacement
Faucet Aerator
Freezer Replacement
Furnace Whistle
Gravity Film Exchange (Drain Water Heat Recovery System)
Health and Safety Measures
Heated Waterbed Mattress Replacement
Insulation (attic, wall, floor, band joist, basement, crawl space)
LED Nightlight
Low Flow Shower Head
Plumbing and Electrical Repairs
Reflective Roof Coating
Reflective Window Tint
Refrigerator Replacement
Room Air Conditioner Cover
Room Air Conditioner Replacement
Smart Strip
Storm Windows & Doors
Thermostat Replacement and Repair
Water Heater Pipe Insulation
Water Heater Replacement
Well Pump
Window Quilt
Windows

The table below provides the Company's projections of the savings under the Phase II Plan through direct low-income customer participation in the Low-Income program, dedicated Energy Usage Reports directly targeted to identified low-income customers and the

proportion of low-income customer participation in the residential sector programs as assessed through tracking and surveys.

Cumulative MWh Projections.	West Penn. Power
Low Income Human Services & Home Performance	4,278
Low Income Dedicated Energy Usage Reports	1,544
Low Income Programs Sub-Total	5,822
Low Income participation in Residential Programs	11,656
. Total	17,478
4.5% Target	15,189

Table 16: Residential Low Income Savings Projection

9.1.4. Provide a statement delineating the manner in which the EE&C plan will achieve the Government/Educational/Non-Profit requirements prescribed in the August 2, 2012 Implementation Order.

While all non-residential buildings are eligible for the prescriptive and custom energy efficiency programs through the Commercial/Industrial Small and Large sector programs, special efforts are targeted at these subdivisions of the government sector in recognition of their unique decision-making and financing processes for making capital improvements to facilities. This Plan will achieve Government/Non-Profit requirements through the combination of program services targeted for federal government facilities, local government facilities, non-profits and schools through the Government Program and the services provided to Government/Non-Profit customers under the Commercial/Industrial Small and Large sector programs. The Company's programs will leverage existing Company Area Manager relationships and vendors who will specifically provide support to governmental accounts to get projects completed. Government programs are described in Section 3.5

9.1.5. Describe how an EDC will ensure that no more than two percent of funds available to implement the plan shall be allocated for experimental equipment or devices.

The Phase II Plan focuses on encouraging the accelerated adoption of commercially available technologies for achieving the energy efficiency. See Appendix D for the measures included in the Phase II Plan. No program or services are specifically devoted to encouraging experimental equipment or devices.

9.1.6. Describe how the plan will be competitively neutral to all distribution customers even if they are receiving supply from an EGS.



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Appendix C: Program costs and savings by program year o Program Year is June 1 - May 31

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THE PERSONAL PROPERTY.	the property of the same of	in English and State of the	2013 Program Administration	2013		و نسب تا عرب	Total 2013 Direct	و ارژان عاد میشن	13 Tracking &		Administrative	
Seat Section 10 ages	Program	Appliance Turn-In		5261,000	2013 MSV 528 865	2013 Incentives 1 5425 500	\$1 440 325	\$36.637		013 Other 1 57,762	\$70.6971	013 Total Costs
Residential	- Appliance Turn-In Program  Energy Efficient Products Program	Appliance rurnini Appliances	\$725,029 \$144.875	\$2,506	52 435	\$697,000	\$346,616	\$30.037	\$26,298 \$522	\$154	\$1,403	\$1,511.091 \$848,219
	Energy Etablett Products Program	Consumer Bectronics	\$76,500	\$2,506 \$0	51,835	\$142,650	\$220,985	\$121 \$548	\$393	\$115	\$1,057	5222,043
		HVAC & Water Heating	\$314.108	\$43,391	\$1,588	\$762,225	\$1,121,322	\$477	\$342	\$101	\$820	\$1,122,242
		Lighting	\$410,286	\$156,520	5152,079	\$639,600	\$1,358,484	\$45,398	\$32.587	\$9.618	\$87.604	\$1,448,088
	Home Performance Program	Audits	\$563,122	\$55,301	52 449	3611,250	\$1,232,123	\$4 222	\$3,030	\$894	58,147	\$1,240,269
ŀ	FOOTB FELCHINARE FLOGRAM	Behavioral	\$2,156,566	50	568 450	5011,230	\$2,224,950	\$118,002	\$84 702	\$25.001	\$227.704	52.452.554
	1	Kris	\$158,720	\$22,773	52,252	\$405,000	\$588.834	\$3,933	52,623	\$833	\$7,590	\$596,424
Į.	1	New Homes	5232 585	522 854	\$61	\$150,000		\$105	\$75	\$22	\$202	\$405,702
Residential Low-Income	Low Income Program	Home Performance	5208,783	\$6,693	\$64	50:		\$110	\$79	\$231	\$2131	\$215,752
		Human Services	\$1,698,140	\$29 573	\$77,100	\$0	\$1,604 613	133 000	\$46,766	\$221,804	\$401 570	\$2,206,383
Small C&I	C&I Energy Efficient Equipment Program - Small	Appl:ances	\$235,896	\$37,505	\$17,264	\$448,951	\$739,615	X3,621	\$13,366	\$3,945	535,933	5775,548)
		Custom Equipment	\$1,356,163	\$488	5418	\$395,810	\$1,753,87	51	\$324	\$96	\$871	\$1,754,750
		Food Service	\$3,693	\$1,4B5	51,282	\$574,039	\$580.49	18.00	\$992	\$293	\$2,668	\$583,167
	i	HVAC & Water Heating	\$4,615	\$1,873	51,606	\$197,328	5205,42	A PERM	\$1,243	\$367	\$3,342	\$298,765
		Lighting	\$121 219	\$49 199	542.178	<b>56</b> 11 558		\$45 <u>4</u>	532 656	\$9 639	587 789	5911 942
ł	C&I Energy Efficient Buildings Program - Small	Audits	\$124,317	\$37,365	5493	\$595,200	375	173 A48	\$328	597	\$883	\$758,258
	1 .	Custom Buildings	\$139,038	\$86,558	\$264	\$152.048	10-5	45	\$176	\$52	\$474	\$358,380
ı	1	Ka	\$224,158	\$92,325	\$27,891	\$359 450	A 1703	25,918	\$13,603	\$5,491	\$50,010	\$753,902
Į.		New Buildings	\$21.712	\$3 598	\$14	\$5,025	#	\$13	\$10	\$3	\$28	\$31,378
Large C&1	C&I Energy Efficient Equipment Program - Large	Custom Ecuspment	\$291,113	\$105	\$68	\$1,165,440	S 55,727	<b>(a)</b> 541	\$29	\$9	\$78	\$1,456,805
1		Lighting	5106 960	\$43,412	\$28,325	5492122	<b>43</b> C80,797	515,827	\$12,078	\$3,565	\$32,471	\$613,268
		HVAC	\$1,014	\$411	\$258	1,000	\$187.297	5:59	\$114	\$34	5308	\$187 604
	C&I Energy Efficient Buildings Program - Large	Audits	\$82,003	\$29,681	\$27,609	1552 410	C > 539 739	54,306	\$3,091	\$912	\$8,310	5648,013
		Custom Buildings	\$78.912	\$37,776	\$35 139	Arsis no	188786	\$5,481	\$3,934	\$1.161	\$10,578	\$670,523
Government	Governmental & Institutional Program	Appliances	\$6,727	\$2,256	\$1,837	300	\$17,499	\$432	\$310	\$92	\$834	\$18,333
	i	Audits	\$9,154	\$606	\$711	\$264.450	\$274,930	\$167	\$120	\$35	\$323	5275,253
	1	HVAC & Water Heating	\$331	\$134 \$4,293	\$1,115	2 3 S	\$15,116 \$76,953	\$262 .	\$188 \$6,026	\$56 \$1,779	\$506	\$15,623
		Lighting	\$10,578 \$4,792	\$4,293 \$1,945	\$35,670	7 27 412	\$132,992	\$8,396 \$3,803	\$6,026 \$2,730	\$1,779	\$16,201 \$7,339	\$83,154 \$140,331
1		Outdoor Lighting Noticiamily	\$3.08 273	31,003	\$16. <b>158</b>	MI A	\$419,699	\$3,803 \$2,874	\$2,730	\$609	\$1,339 \$5,545	\$425.244
Grand Total		(Analisa mary	\$308 273	51.036 ZEA	512 100	510 452 134		\$2 874 \$480 221	5296.002	\$295,368		522.947.108
Chang total			79,199,390	31.030./164	305	310 45, 236	321 8/3 314	3480 ZZ1	3290.002	a∠¥0.J08	31,071.592	322,947,108

Includes costs for plan development, modeling, employee expenses, and legal fees.

This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required befollows. Sections for changes to the plan

Appendix C: Program costs and savings by program year o Program Year is June 1 - May 31

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But the sale					Direct Cost	3			Administrative			V 8 :
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Hair, Sector			2014 Program	2014			Total 2014 Direct	ي المراجع الأخراري	2014 Fracking & p.			
Residential	Appliance Turn-In Program	Appliance Turn-In	\$740 979	\$261 000	\$29 501	2014 Incentives L		2014 Labor	Reporting 12 3	2014 Othert	Costs 7	2014 Total Costs
	Energy Ethioleni Products Program	Appliances	5148,062	\$2,562	\$2 481	\$425 500 \$697,000	\$1 456 980		<u>527 4</u> 5	\$3 ZZ/	\$67 6291	\$1,524,606
		Consumer Electronics	\$89,425	32,302 50	\$2,139	\$152,350	\$850,104	\$766	\$561	\$67	\$1,394	\$851,499
		HVAC & Water Heating	\$357,912	344 345	52,139 \$1,884	\$162,330 \$844 275	\$253,914	\$860	\$484	\$57	\$1,201	\$255,111
	1	Lighting	\$419.312	\$159.963	\$154.918	\$639.600	51,248,417	\$582	\$426	\$51	\$1,059	\$1,249,47
	Home Performance Program	Augus	\$563,541	\$56,132	\$2,503		<b>51,373</b> 794	\$47,811	\$35 058	\$4 153	<u>\$87 023</u>	\$1,460 817
	1	Behavioral	\$2,337,238	\$30,132 \$3	\$69,956	\$611,250	\$1,233,426	\$4 450	\$3,263	\$387	\$8,100	\$1,241,526
		Kis	\$162,273	\$22,773	\$2,332	\$405,000	\$2,407,194	\$124,386	591,208	\$10,805	\$226,399	\$2,633,594
		New Homes	5237,702	523 357	\$2,332 \$52	\$150,000	\$592,377	\$4,146	\$3,040	\$360	\$7,547	\$589,924
residencial Low-Income	Low Income Program	Homa Performance	\$213,376	\$5,593	\$65		\$411,120	\$111	581	\$10	\$201	5411,322
		Human Services	\$1.374 590	\$22,995	\$78 798	\$0	\$220,134	\$116	\$85	510	\$211	5220,346
Roal C&I	C&I Energy Efficient Equipment Program - Small	Appliances	\$262,964	\$52,272	\$17,606	\$473,551	\$1 476 381	135 026	\$38,997	\$217,198	\$392,118	\$1,868.500
		Custom Equipment	\$1,355,991	\$490	\$414	\$396,810	\$826,393	9.548	\$14 334	\$1,696	\$35,560	5861,973
	l .	Food Service	\$5,363	\$2,153	\$1,818	\$788,377	\$1,783,70	59	\$337	\$40	\$836	\$1,784,541
		HVAC & Water Heating	\$7,514	\$3,053	\$2,578	\$264 659	\$707,7	1 500	\$1,480	\$175	\$3,674	\$801,389
	1	U <b>gh</b> ≏ng	\$123 175	\$49 393	\$41,712	\$611,556	\$277.90	s short	\$2,099	\$249	\$5,210	5283,114
	CSI Energy Efficient Buildings Program - Small	Aucts	\$129,317	\$39 202	\$510	\$602.700	\$825 835 \$77 700	- 44	\$33 960	\$4 023	584 295	5910,134
		Custom Buildings	\$142,942	568.428	\$277	\$159,048	200	TA EE	\$310	\$37	\$768	5772,497
		Kits	\$229,118	\$8,577	\$28,490	\$359,048		22.5	\$168	\$20	\$417	\$371,112
_		New Boddings	\$22,032	\$3,601	\$15	\$6 028	A7 32	23,562	5:7,277	\$2,047	\$42,886	\$668,561
2(gs (C&)	CSI Energy Efficient Economiera Program - Large	Custom Ecutoment	\$308,401	\$109	\$72	\$1 294,100	Fr. 501	\$12	59	\$1	522	\$31,698
-		Ughting	\$108,587	\$43,583	\$28,939	1 254,130	2.003	S44	\$32	\$4	\$80	\$1,602,762
		HVAC	\$1.056	\$423	5281	(B) 100	2001.309	\$17,493	512,827	\$1,519	\$31,640	\$615,148
	C&I Energy Efficient Buildings Program - Large	Aukits	\$62,067	\$29,712	528.216	272.243	\$189 005	\$170	\$125	\$15		\$189 314
		Custom Baldines	\$78 994	\$37.816	\$35,912		1540 40	\$1,322	\$3,170	\$375	\$7,887	\$648,273
overnment	Governmental & Institutional Program	Appliances	\$11,82B	\$4,006	\$2,786	- 1 30 30 30 30 30 30 30 30 30 30 30 30 30	44.0	\$5,501	\$4 034	<b>S</b> 478	510 013	\$670,853
	•••	Aunts	\$9,354	\$808	\$715	25. 200	325(103)	\$654	5479	557	\$1,190	\$30,893
		HVAC & Water Heating	\$387	\$155	\$1.292.4	25A 430	\$275,135 \$15,771	\$168	\$123	\$15	\$305	\$275,440
	1	Lighting	510,749	\$4,310	\$35.870	<b>XX</b>		\$303	5222	\$26	\$552	\$16,323
		Outdoor Lighting	\$4,869	\$1,5 <u>*</u> 2	516. <b>2</b> 6.	23 12 020	\$77,341	\$8,416	55,171	\$73:	\$15,318	\$92,659
_		Mututanely	\$315.055	518	312 F		\$133,167	\$3,812	52,795	5331	\$6,939	\$140,106
Rand Total	<u> </u>		59.884 378	\$967.05(1-1)	\$600.656		\$420,119	\$2.880	\$2,112	\$250	55,243	\$425,362
Indictes costs for plan de	volopment, modeling, employee expenses, and legal	4	33.00-3/6	3001.04	- son day	\$11,003 (TEL	\$22 462,651	\$495 300	\$302 514	5248 412	\$1 046 226)	\$23 508 877

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Appendix C: Program costs and savings by program year o Program Year is June 1 - May 31

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Sector S	A PRODUCT CONTRACTOR OF THE	P S Section 2	2015 Program Administration	2015	22	2015 Incentives	Total 2015 Direct		015 Tracking & 💫	elefologie	Administrative >	
Repdencal	Appliance Turn-in Program	(Applience Term-in	\$757.281	\$261,000	\$30 150	\$425 500	\$1 473 931	\$36 409	\$26,927	2015 Other \$3 190		
	Energy Efficient Products Program	Appliances	\$151,319	\$2,618	\$2,526	\$657,000	\$953 464	\$33,50	\$578		\$68 525f	\$1,542.456
	-	Consumer Electronics	\$104,971	\$0	\$2,502	\$184.050	\$291,522	\$313	\$570	300 388	\$1,465	\$854,925
		HVAC & Water Heating	\$402.594	\$45.321	\$2,174	\$918,500	\$1,368,589	\$707	\$495	\$60 \$59	\$1,451	\$292,973
		Lighting	\$428 537	5 163 483	\$157,771	\$639 600		\$51.285	\$35.954	\$4 259	\$1,261 \$91,498	\$1,369,850
	Home Performance Program	Audis	\$575,939	\$56,992	\$2,559	\$611,250	\$1,248,729		\$3,169	\$375	\$8,065	\$1,430,888 \$1,254,793
		Behavioral	\$2,303,780	\$23	\$71,495	\$C	\$2,375,275		\$85.576	\$10,493		\$2,600,685
		Kts	\$165,643	\$22,773	\$2,383	\$405,500	\$595,963	54 212	\$2,953	\$350		\$603.512
	<u> </u>	New Homes	5242.931	\$23,870	564	\$150,000	\$416,565	5112	579	50	\$200	\$417.065
Residential Low-Income	Low Income Program	Home Performance	5218,070	56,693	\$67	SG			\$83	\$10		\$225,040
		Human Services	\$1,773 681	530,618	\$80,530	SO	\$1,684,828	138,916	\$48,408	\$222 987	\$410.312	\$2,295,140
Small C&1	Cat Energy Efficient Equipment Program - Small	Appliances	5289,189	\$52,309	\$17,593	\$473,551	5833.843	3 20,307	514 236	\$1,686	\$36,229	\$869.277
•		Custom Equipment	51,416,483	\$501	\$423	\$396,810	51,814,21	77	5335	\$40	\$652	\$1,815,069
		Food Service	\$5,486	\$2,200	\$1,658	5788,377	\$797.93	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$1,470	5174	\$3,741	\$801.661
		HVAC & Water Heating	57,781	\$3,120	\$2,635	\$25 - 659	\$278,19	1	\$2 085	5247	\$5,306	\$283,501
		Lighting	\$ <u>125,85\$</u>	\$50,480	\$42,630	\$611.558	\$830 553	543	533 728	\$3 995	\$35,533	\$916.386
	C&I Energy Efficient Buildings Program - Small	Audits	\$131,770	\$39,806	\$522	\$602,700	793	<b>A</b>	\$307	\$36	\$781	\$775,576
	ĺ	Custom Buildings	\$145,341	\$69,577	\$263	\$159,645	A CONTRACTOR OF THE PARTY OF TH	236	\$:67	520	\$424	\$374,673
		Kits	\$234,159	\$8,766	\$29,117	\$359 490	\$533633	524.425	\$17,124	\$2,028	\$43,577	\$875,109
	<u></u>	New Buildings	\$22,478	\$3,662	\$15	\$6.029	10 1000	\$13	\$5	\$1	\$22	\$32,205
Large (CS)	C&i Energy Efficient Equipment Program - Large	Custom Equipment	\$315,186	\$111	\$74	\$1,294,100	E 96.55 471	<b>1 3</b> 45	\$32	\$4	581	\$1,609,553
		Lighting	\$111,078	\$44,542	\$29,575	<b>(2) 5452 15</b> 20	587,295	\$18,182	512,747	\$1,510	\$32,438	\$619,734
	0.00	HVAC	\$1 079	\$433	\$287	<b>V</b>	\$189 044	\$177	\$124	\$15	\$315	\$189 359
•	C&I Energy Efficient Bulkstogs Program - Large	Audits	\$65,021	\$31,126	\$29,320	2 E-180	7	\$4,596	\$3,222	\$382	\$8,201	\$669.54
Government	C	Custom Buildings	\$80.320	\$38,450	\$36 219	No. of Parties	2000	\$5 678	\$3 981	\$472	\$10 130	\$673,238
Coverations	Governmental & Institutional Program	Appliances	\$12,088	54,009	52,848	51: 22	\$30,027	\$879	\$476	\$56	\$1,211	\$31,238
	,	Audia	\$9,560	\$607	5731	\$264.45	\$275,357	\$174	5122	514	5311	\$275,669
	l	HVAC & Water Heating	\$396	5159	\$1,325	3,937	\$15,811	\$315	\$221	\$26	356 t	\$16,37
		Lighting	\$10,935	\$4,405	\$36,6	<b>75.</b> 5,412	\$78,461	\$8,738	\$6,126	\$726		\$94 C51
	l	Outdoor Lighting	54,976	S1.965	\$15.5 <u>2</u> 2	6110,618	\$133,675		52,775	\$329	57.062	\$140,737
Grand Total	L	Muturamity	\$321 986	519	5:2.5	57 640	\$427,335		52.097	5248		\$432.671
	elopment, modeling, employee expenses, and legal		510 436 192	5957.6	\$613 5413	<b>511 12 </b> 四	\$23 159,343	\$510 869	5309,169	\$253 877		\$24 233 256

as an element of the plans will be further reduced consistent with Commission requirements for changes to the plans. 1. This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required before

Appendix C: Program costs and savings by program year o Program Year is June 1 - May 31

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		Me Call Co		<u> </u>	Direct Cost	\$			Administrative	Costs .	·	
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	を表現した。 では、これでは、 では、 では、 では、 では、 では、 では、 では、	· 是一个,不是一个	Cr. 8 3 5	1 C	i e	Contract of the	Y + 6 + 8 P	" 12 2 8 5 " E"	Service Contractive	162 7.3	N Coloral Color	
£ 30 30 8 30 8	(A)	Control of the second of the s	2013-2015 Program	2013-2015	3-3-	2013-2015	2013-2015 Direct	(C) (智 * * * * )(A	013-2015 Tracking	30.5	Administrative	2013-2015 Total
		Sub Property	Administration:	LUNG-ZUIS/	2013-2013 Y		Contract		& Reporting	2013-2013 t	PECONOMIA	COST NO.
Residential	Appliance Turn-In Program	l'Appliance Turn-In	\$2 223 289	5783 000	\$88 516	\$1 276 500	\$4,371,306	\$112,201	\$80 470	\$14 179	\$206,8511	\$4 578 156
- <del>-</del>	Energy Efficient Products Program	Appliances	\$444 256	\$7,686	\$7,443	\$2,091,000	\$2,550,384	\$2,314	\$1,659	\$289	\$4,262	\$2,554,645
		Consumer Electronics	\$270,896	\$0	56,476	5459,050	\$766,421	\$2,021	\$1,447	\$241	\$3,709	\$770,131
		HVAC & Water Heating	\$1,074,614	\$133,057	55,657	\$2,525,000	\$3,738,328	\$1,765	\$1,264	5210	\$3,240	\$3,741,568
		Lighting	\$1 258 134	\$479 968	3464,759	\$1,918,600	\$4 121,668	\$144 495	\$103 599	\$18.031	5256 124	\$4 387.793
	Home Performance Program	Audits	\$1,702,602	\$168,415	\$7,510	\$1,833,750	\$3,712.276	\$13,192	\$9,463	\$1,656	\$24,312	\$3,736,589
		Behavioral	\$6,797,518	\$0	5209,901	\$0	\$7,007,419		\$254,486	\$46,298	\$679,517	\$7,686,936
		Kis	\$486,895	\$65,318	\$6,997	\$1,215,000	51,777,209	\$12,291	\$8,816	\$1,543	\$22,551	\$1,799,860
	ļ <u></u>	New Homes	5713 218	\$70.051	5187	\$450 000	S1 233 455	\$328	\$235	541	\$604	\$1 234 089
Residential Low-Income	Low Income Program	Home Performance	\$640,230	\$29,078	\$196	50	\$660,504	\$344	\$247	\$43	\$634	\$661,138
		Human Services	54 846,411	\$83 156	\$236,426	\$0	\$5,186,023	9 7 842	5134 171	\$661 986	\$1,204,000	\$6,370,022
Small C&I	C&I Energy Efficient Equipment Program - Small	Appliances	\$808,049 \$4,1\$8,636	\$142,086 \$1,479	\$52,663 \$1,255	\$1,396,053 \$1,190,430	\$2,399,05/fr \$5,351,806	76	\$41,936 \$996	\$7,330 \$175	\$107,742	\$2,505,793
		Custom Equipment Food Service	\$4,150,036 \$14,537	\$1,479 \$5.847	\$1,233	\$2,150,793	\$2,175,134		\$3.942	\$173 \$642	\$2,559 \$10,082	\$5,354,359 \$2,185,217
		HVAC & Water Heating	\$20,010	\$8,047	\$4,937 \$6,819	\$726,646	\$2,170,136)8 \$761,52 <b>3</b> 8		\$5,427	\$642 \$863	\$10,082 \$13,858	5775,380
		Dohang	5370 278	\$149 072	\$126 520	\$1 634 674		13/2/7	5100 343	\$17.657	\$13,636 \$257.918	\$2 738 462
	C&I Energy Efficient Buildings Program - Small	Apais	5385,403	\$116,374	\$1,524	\$1,800 600		<b>13</b>	\$945	\$170	\$2,432	\$2,308,334
	Con Chargy Charges Develope 1 100 ann - Onto	Custom Buildings	\$427,318	\$204 563	5824	\$470,144		\$7.12	5511	\$92		\$1,104,164
	İ	Kits	\$857,483	\$109,669	\$85 498	\$1,078,470	\$1 52 500	\$73,903	\$53,003	\$9,566	\$136,472	\$2,097,572
	1	New Buildings	\$66,222	\$10,561	544	M 519 034	E 2511 K	\$3.2	\$27	\$5	570	\$95,281
Large C&I	C&I Energy Efficient Equipment Program - Large	Custom Equipment	\$914,701	\$325	\$215	932 752 640	44.668,881	\$130	593	\$16	\$239	\$4 669,120
-		Lighting	\$326,725	\$131,537	\$86,639	\$3,000.00	31,751,431	\$52,502	\$37,652	\$6,595	\$96,748	\$1,848,150
		HVAC	53 148	\$1,267	<u>\$5</u> 37	2555.093	565 346°	\$506	\$363	\$63	\$932	\$566,278
	C&I Energy Efficient Buildings Program - Large	Auchts	\$189,090	\$90,520	\$85.145	4.50	The same	\$13,225	\$9,483	\$1,670	\$24,376	51,966,134
		Custom Balangs	\$238,226	5114 042	\$107,269	\$1,524(6),	\$1 933 395	\$16,660	\$11,949	\$2,111	\$30,719	52,014,614
Government	Governmental & Institutional Program	Appliances	\$30,644	\$10,272	\$7,470	\$28.630	177,229	\$1,765	\$1,266	\$205	\$3,235	\$80,464
	I	Audis	\$28,068	\$1,819	\$2,15	93,377	825,422	\$509	\$365	\$65	\$939	\$826,361
	1	HVAC & Water Heating	\$1,113	\$448	\$3,777	2221411	\$46,699	. 5880	5631	\$103		\$48,318
	1	Lighting	\$32,312	\$13,009	\$108.192	18 579 X6	\$232,755	\$25,550	\$18,324	\$3,235	\$47,109	5279,863
		Outdoor Lighting	\$14,637	\$5	S49.12.31		\$399,634	\$11,573	\$8,300	\$1,466		\$421,173
0 47 4 1		Multifamily	\$945,314	561,000	537.002	\$27 E90 \$32.55 33.5	\$1 267 153	\$8,745	\$6 271	51 107		\$1 283 276
Grand Total			\$30 :19 960	\$2,991,922	37, 572 25	532.55	\$67 497.509	\$1,486,390	\$907 685	<b>5</b> 797 657	\$3,191,732	\$70 689 241

Includes costs for plan development, modeling, employee expenses, and legal fees.

<sup>1.</sup> This table does not reflect the commutments made through the Joint Settlement because further work with interested stakeholders is required before plans.

Residential Portfolio				7.5 H 2" 6	TRC B		Penni Per Year (	1000	\$15.00 A		Property C	
			Programii Costs	Program Benefits	Capa	ity (S. 1994) G ( S. 1994)	Ener	gy ial in 120 GONOff Peak	Load Re	ductions in kW	S MV	Vh Saved
Appliance Turn-in Program	2013 2014 2015 Total	1,3	1,086 1,099 1,117 3,030	242 449 719 3,992	58,109 71,436 128,675	See footnote 1	184,016 377,247 590,510 3,424,431	See footnote 2	583 1,156 1,749	12,808	5,567 11,134 16,701	84,549
Energy Efficient Products Program	2013 2014 2015 Total	1.0	2,921 3,054 3,193 8,399	492 962 1,555 <i>8.4</i> 32	75,880 98,472 186,828 868,714		415,947 863,098 1,368,302 563,260		761 1,607 2,539	20.791	22,804 46,139 70,040	186,665
Home Performance Program	2013 2014 2015 Total	1.0	4,557 4,748 4,738 12,883	3,394 3,553 4,074 13,495	495,974 325,730 416,205 1,421,094	(	2.6 7.967 3.5 7.48 3.65 7.20 12.073.333		4,976 5,316 5,657	25.542	53,133 59,466 65,799	265.592
Total	·	1.1	24,312	25,919	2,857,877		23,051,22		1	59,141		536,807

the sear the measure unit was installed. The combined avoided capacity costs 1: Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are tight can not be identified by component; therefore, the total avoided capacity costs for Generation, Transmission, and Distribution and

2: The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV is

as installed. The combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.

Residential Low-Income Portfolio	A CARLOS SON	es d'all parties	Wes	Pennic (\$000)		
HE THE TOTAL PROPERTY OF THE P	STATE OF THE PERSON	Program () Program	Capacity Capacity	Energy (S. S. S	oad Reductions in kW	Saved -
	RESERVED AND AND AND AND AND AND AND AND AND AN	Costru Benefit	en (is a music Control	S Annual H. 1922 April 1	The second second second	75.519.124
The same of the sa	2013	3.475	20 58 See foctnote 1	65,470 See footnote 2	205 1.434	STEEL PHENNIE STATE
Low Income Program	2014	2,143	20.686	110,857	391 2,251	
Low meaning Program	2015	2,574	43,874	185,730	596 3,684	1
	Total 0.2	1.260	225,014	1,059,133	5,298	25,002
Total	0.2	1,284	225,014	1,059,133	5,298	26,002

1: Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided space costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component; therefore, the total avoided capacity costs for Generation, Transmission and Distribution Capacity costs for Generation, Transmission and Distribution Capacity costs are combined avoided capacity costs for Generation, Transmission as Distribution Capacity costs are combined avoided capacity costs are combined avoided capacity costs are combined in a sum of avoided capacity costs are combined in a sum of avoided energy costs are combined in a sum of avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are combined in a sum of avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are combined in a sum of avoided energy costs.

3. This table does not reflect the commitments made through with Commission requirements for changes to the plans. after work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be further redained consistent

Appendix C: Program costs and savings by program year o Program Years June 1 - May 31

Later to a later					West Penn It	To the second					er versker	
記事をよる (現)		Complete Complete			Direct Cost			-	Administrative	Costs		
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は存在されている。	<b>展集工程,由基本企业的共享工程</b>		1 2 2 2 2 2 3 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$ <u>€</u> 5		S. R. L.	Total 2013 Direct		5. 3. 1. S. 1. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	x [ ] ( )	ு Total 2013 👍 🖟	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<b>建筑建筑</b>	1. 数数据 · 《 · · · · · · · · · · · · · · · · ·	St. 2	12013 Program	ori 501315			Total 2013 Direct	2013 Labor 20	2013 Tracking &		Administrative : - 2	
Residental	Appliance Turn-In Program	Applicance Turn-In	\$725.029	\$251,000	\$28 866	\$425,500	\$1 440 3951	\$35 637	\$28 298	\$7 762	570 6971	\$1 511 061
Resource	Energy ESpent Products Program	Accivances	\$144.875	\$2,506	\$2,435	\$677,100	\$826,916	\$727	\$522	\$154	51,403	\$828,319
	Elisty) Eliberal rounds (10g/all)	Consumer Bectronics	\$76.500	\$0	\$1,635	\$142,650	\$220,985	\$548	\$393	\$116	\$1,057	\$222,043
		HVAC & Water Heating	\$314,108	\$43,391	\$1,598	\$759,825	\$1,118,922	\$477	\$342	\$101	5920	\$1,119,842
,		Ligrang	\$410,286	\$156,520	\$152,079	\$639,660	\$1,358,484	\$45,398	\$32,587	\$9,618	\$87,604	\$1,446,088
	Home Performance Program	Audits	\$563,122	\$55,301	\$2,459	\$611,250	\$1,232,133	\$4 222	\$3,030	\$894	\$8,147	\$1,240,280
		Benavioral **	\$2,146,916	\$0	\$68,430	\$0	\$2,215,345	\$118,002	\$84,702	\$25,001	\$227,704	\$2,443,049
		Kits	\$158,780	\$22,773	\$2.291	\$405,000	\$588.843	\$3,933	\$2,823	\$833	\$7,590	\$596,433
		New Homes	\$232 585	522 854	561	\$150,000	\$405 500	\$105	\$75	522	\$202	S405 702
Residental Low-Income	Low Income Program	Home Performance	\$208,783	56,693	564	50)	\$215,540	\$110	\$79	523	\$213	\$215,752
	1	Human Services	\$1 755 123	\$29 676	577 100	SO	\$1,862,099	\$133 000	\$46,766	5221 804	\$401 570	\$2 263 669
Scoot C&I	C&I Energy Ethorn Equipment Program - Small	Appliances	\$235,896	\$37,505	\$17,264	\$448,951	\$739,615	\$18,621	\$13,366	53,945	535,933	\$775,548
	-	Custom Equipment	\$1,356,163	\$488	\$418	\$396,810	\$1,753,879	\$451	\$324	596	\$871	\$1,754,750
	1	Food Service	\$3,683	\$1,495	\$1,282	\$574,039	\$580,499]	\$1,382	\$992	\$293	\$2,688	\$583,167
		HVAC & Water Heating	\$4,615	\$1,873	\$1,608	\$197,328	\$205,422	\$1,732	\$1,243	\$387	\$3,342	\$208,765
		Lighting	\$121 219	\$49 199	\$42 178	\$611 558	\$824 153	\$45 494	532,656	59,639	\$87 789	5911 942
	C&I Energy Efficient Buildings Program - Small	Aurata	\$124,317	\$37,366	\$493	\$595,200	\$757,375	\$458	\$328	597	\$863	\$758,258
		Custom Buildings	\$139,036	\$65,558	\$264	\$152,045	\$357,906	\$245	\$176	\$52	\$474	\$358,380
		Kits	\$224,186	\$92,325	\$27,691	\$359,490	\$703,892	\$25,916	\$18,603	\$5,491	550,010	\$753,902
	<u> </u>	New Buildings	\$21,712	\$3 598	\$14	\$6,026	\$31 352	\$13	\$10	\$3		\$31 378
Large C&I	C&I Energy Ethoent Equipment Program - Large	Custom Equipment	5291,113	\$105	\$69	\$1,165,440	\$1,456,727	\$41	529	59	\$78	\$1,456,605
	1	tigrang	\$106,960	\$43,412	\$28,325	\$402,100	\$580,797	\$16,827	\$12,078	\$3,565	\$32,471	\$613,268
		HVAC	\$1,514	\$411	\$268	\$185,603	\$187 297	\$159	\$114	\$34	\$308	\$187,604
	C&t Energy Efficient Buildings Program - Large	Audis	\$62,003	\$29,681	\$27,609	\$520,410	\$639,703	\$4 306	\$3,091	\$912	\$8,310	\$648.013
		Custom Buildings	\$78,912	\$37,776	\$35,139	\$508.119	\$659,945	\$5,481	\$3,934	\$1,161	\$10 576	\$670.523
Government	Governmental & Institutional Program	Appliances	\$6,727	\$2,256	\$1,537	\$6,679	\$17,499	\$432	\$310	\$92	5834	\$18,333
l		Aedia	\$9,154	\$606	\$717	\$264,459	\$274 930	\$187	\$120	\$35	\$323	\$275,253
l .	1	HVAC & Water Heating	\$331 \$10.579	\$134 \$4,293	\$1,115	\$13,537 \$26,412	\$15,116 \$76,953	\$262	\$188 \$8.026	\$56	\$506	\$15,623
i	l	Lighting			\$35,670			\$8,396		\$1,779	\$16,201	\$93,154 \$140,331
	i	Outdoor Lighting	\$4,792 \$308,273	\$1,845 \$24 617	\$16,158 \$12,208	\$110,098 \$74,600	\$132,992 \$419,699	\$3,803 \$2,874	\$2,730 \$2,063	\$806 \$809	\$7,339) \$5,545	\$425,244
Grand Total	<u> </u>	Mutulamely	\$9,848,789	\$1,036,558	\$587,738	\$10 429.834	\$419,639	\$2.874 \$480.221	\$2,063	\$295,368	\$1,071,592	\$22,972.508
Grand rotal			1 29 840.789	31,030,008	30¢7.736	210 453,634	3%1'AD0:310	3480 221	32/6,002	3250,305	\$1,071,592	955,812,500

Includes costs for plan development, modeling, employee expenses, and legal fees.
"Includes Low Income

Appendix C: Program costs and savings by program year o Program Year is June 1 - May 31

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		<b>是是这个人</b>			Direct Cost	3			Administrative	Costs		
		E. S. E. Year	200 E 200 J	Annual Control							CONTRACTOR OF THE CONTRACTOR O	
THE CONTRACT	<b>《大学》,"大学的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>		2014 Program	2014		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Total 2014 Direct		J-10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Administrative	
4	S Carlo Company (Carlo Carlo Car	3. Sub Program			2014 HAV	2014 Incentives	TO THE SEC	2014 Labor 2	20 Hacking &	2014	Administrative	
Residence	Appliance Turn-In Program	IAppliance Turn-In	\$740 979	\$261,000	\$29 50:	\$425 5001	\$1,456,960	\$37 156	\$27 245	\$3 227	\$67 629)	\$1 524 609
	Energy Efficient Products Program	Appliances	\$147,408	\$2,582	\$2,481	\$677,100	\$829,551	\$766	\$581	\$67	\$1,3941	5830 944
	_ ·	Consumer Electronics	\$89,425	\$0	\$2,139	\$182,350	\$253,914	\$660	S-:84	\$57	\$1,201	\$255,115
		HVAC & Water Heating	\$346,375	\$44 345	\$1,584	\$841,875	\$1,234,479	\$582	\$426	\$51	\$1,059	\$1,235,538
	1	Lighting	\$378 503	\$ 159,983	5154 918	\$639 600	\$1 332 985	547,811	\$35 058	\$4 153	\$87 023	\$1,420,007
	Home Performance Program	Audits	\$587,420	\$56,132	\$2,519	\$611,250	\$1,237,321	\$4 450	\$3,263	\$387	\$8,100	\$1,245,421
		Behavioral -	\$2,326,851	\$0	\$70,081	so	\$2,396,932	\$124 386	\$91,208	\$10,805	\$226,399	\$2,623,331
		Kits	\$155,075	\$21,254	\$2,190	\$378,000	\$556,520	\$4,145	\$3,040	\$360	\$7,547	\$564.066
		New Homes	\$237,702	\$23,357	\$63	\$150,000	\$411.121	\$111	\$81	\$10	\$201	\$411,322
Residential Low-Income	Low Income Program	Home Performance	\$213,376	\$6,693	\$66	8	\$220,135	5116	\$85	510	\$211	\$220,346
	<u> </u>	Human Services	\$1,428,075	\$22 <u>,995</u>	\$78.796	\$0	\$1,529,886	<u>\$135,928</u>	\$35,997	\$217,196	\$392,118	\$1,921,984
Small C&1	C&I Energy Efficient Equipment Program - Small	Appliances	\$282,964	\$52,272	\$17,606	\$473,551	\$826,393	\$19,548	\$14,334	\$1,698	\$35,580	\$861,973
•	1	Custom Equipment	\$1,385,991	\$490	\$414	\$398,810	\$1,783,705	\$459	\$337	\$40	\$836	\$1,784,541
	1	Food Service	\$5,368	\$2,153	\$1,618	\$788,377	\$797_715	\$2,018	\$1,480	\$175	\$3,674	\$801,389
		HVAC & Water Heating	\$7,614	\$3,053	\$2,578	\$264,659	\$277,904	\$2,863	\$2,099	\$249	\$5,210	\$283,114
		Lighting	\$123 175	\$49,393	541712	\$611 558	\$325 838	\$46 313	\$33,960	\$4 023	\$84 295	\$910,134
	C&I Energy Efficient Buildings Program - Small	Audts	\$129,317	\$39,202	\$5:0	\$602,700	\$771,729	\$422	\$310	\$37	\$768	\$772,497
		Custom Buildings	\$142,942	\$68,428 \$8,577	\$277	5159,946	\$370,696	5229	\$168	\$20	\$417	\$371,112
		Kits New Buildings	\$229,118 \$22,032	\$3.577 \$3.601	\$25,430 \$15	\$359,490 \$6,026	\$625,676 \$31,676	\$23,562	\$17,277	\$2,047	\$42,886	\$668,561
Large C&I	C&I Energy Efficient Equipment Program - Large	Custom Equipment	5308,401	S109	\$72			\$12 \$44	59	\$1		\$31 698
Langer Co.	Call Energy Estatent Equipment Program - Carge	Lighting	5108,687	\$43,583	\$26,939	\$1,294,100 \$402,100	\$1,602,683 \$583,309	\$17,493	\$32 \$12,827	\$4		\$1,602,762
		HVAC	\$1,056	\$423	\$281	\$402,100 \$187,245	\$189.005	\$17,493 \$170	\$12,827 \$125	\$1,519 \$15		\$615,148
	C&I Energy Efficient Buildings Program - Large	Aud%	\$62,067	\$29,712	\$25,216	\$520,4191	\$640,405		\$3,170	\$375		\$189 314 \$648,273
	Our Chergy Cardens Southings Fragamin Cargo	Custom Buildings	\$78.994	537 816	\$35 912	5503 119	\$660 840	\$5 501	\$4 034	\$478		\$670,853
Government	(Governmental & Insulational Program	Appliances	\$11,828	\$4,006	\$2,766	\$11,082	\$29,703	\$654	\$479	\$57	\$1,190	\$30,893
		Audis	\$9,354	\$606	\$715	\$264 459	\$275,135	\$168	\$123	\$15	\$305	\$275,440
		HVAC & Water Heating	\$387	\$155	\$1,292	\$13,937	\$15,771	\$303	\$722	\$26	\$552	\$16,323
		Lighting	\$10,749	\$4,310	\$35,870	\$25,412	\$77,341	\$8,418	\$6,171	\$731	\$15,318	\$92,659
		Outdoor Lighting	\$4,869	\$1,952	\$16,248	\$110,098	\$133,167	\$3,812	\$2,795	\$331	\$6,939	\$140,106
		Mattlamily	\$315 055	\$18,187	\$12 277	574 600	\$420,119	52 880	\$2 112	\$250		5425 362
Grand Total			\$9,871,156	5966 331	\$600 666	\$10 960 458	\$22 398 612	\$486 300	5302 514	\$248 412		523 444 838

Includes costs for plan development, modeling, employee expenses, and legal fees.

<sup>&</sup>quot; Indudes Low Income

Appendix C: Program costs and savings by program year o Program Years June 1 - May 31

100			ne contract		West Penn (		re-normalization		Market State (Sept.		STOTE CONTRA	The Real Property (1994)
10 July 10 Jul		3. 3. 7 7 6 Sec.			Direct Cost				Administrative			3.00 A
h			COLUMN TO THE SECOND	S		10 A 17 A 17		4 V 4 V	YUF BOOK :	A 123 (1)	REPORT OF THE	
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to the contract of	<b>中华的人工,是"不够"的"不够"的"是</b>	Se 25 1 25 1 25	2015 Program	£ 2015	المراشين	in the second	Total 2015 Direct	Marie State	2015 Tracking & 🔅	The second	S Commission of the contract o	27.36 1.74
Sector 5.1 Fig.	Strate and a Program C S 255 at	L Sub Program L		Larketing	2015 M&V 🖹	-3 2015 Incentives 🗅	Costs (S-1)	2015 Labor	Reporting 4	2015 Other	Costs City	D15 Total Cour
Residence	Appliance Turn-in Program	Appliance Turn-In	\$757 281	\$261 000	\$30 150	\$425 500	51-173 931	138 409	526 927	\$3 190		\$1 542 458
	Energy Efficient Products Program	Appliances	\$150,888	\$2,618	\$2,526	\$677,100		\$821	\$576	568	\$1,465	\$834.597
	,	Consumer Electronics	\$104,971	\$0	\$2,502	\$184,050	\$291,522	\$813	· \$570	\$68	\$1,451	\$292,973
	1.	HVAC & Water Heating	\$394,975	\$45,321	\$2,174	\$916,100	\$1,358,570	\$707	\$495	\$59	\$1,281	\$1,359,831
	N	Lighting	\$401,587	\$163,453	\$157.771	\$639 600	\$1,362,441	\$51 285	\$35,954	\$4 259	\$91.499	\$1,453,939
	Home Performance Program	Audis	\$579,904		\$2,574	\$611,250	\$1,250,709	\$4 520	\$3,169	\$375	\$8,065	\$1,258,774
	1	Behavioral	\$2,293,541	\$0	\$71,623	50	\$2,365,164	\$126,345	\$88,576	\$10,493	\$225,414	\$2,590,578
		Kita	\$158,487	\$21,254	\$2 238	\$378,000	\$559,979	\$4,212	\$2,953	\$350	\$7,514	\$567,493
Dd-	<del></del>	New Homes	\$242.931	\$23,870	\$64	\$150,000	\$416,865	\$112	\$79	\$9	\$200	_\$417,066
Residential Low-Income	Low Income Program	Home Performance	\$218,070	\$6,693	\$67	50		\$118	\$83	\$10		\$225,041
Smat Cš:		Human Services	\$1.833 198	\$30 922	\$80 530		\$1,944 <u>649</u>	\$138,916	\$48 408	5222 987	\$410,312	\$2 354 961
3004 (3)	C&I Energy Efficient Equipment Program - Small	Appliances	\$289,189	\$52,309	\$17,993	\$473,551	\$833,043	\$20,307	\$14 236	\$1,685	\$36,229	\$869,272
	i	Custom Equipment	\$1,416,483	\$501	\$423	\$396,610	\$1,814.217	\$477	\$335	\$40	\$652	\$1,815,068
		Food Service	\$5,486	\$2,200	\$1,658	\$788,377	\$797,921	\$2,097	\$1,470	\$174	\$3,741	\$801,661
	1	HVAC & Water Heating	\$7,781	\$3,120	\$2,635	\$264 659	\$278.195	\$2.974	\$2,085	\$247	\$5,306	\$283,501
	C&I Energy Efficient Buildings Program - Small	Lighting	\$125.885	\$50 480	\$42,630	\$611,558	\$830 553	\$48,110	\$33,728	\$3 995		\$916 386
	Cer Energy Employer portroller Notice - State	Audia	\$131,770	\$39,606	\$522	\$602,700	\$774,798	\$438	\$307	\$36	\$781	\$775,578
		Custom Buildings	\$145,341	\$69.577	\$263	\$159,048	\$374.249	\$238	\$167	\$20	\$424	\$374,673
		Kos	\$234,159	\$8,766	\$29,117	\$3\$9,490	\$631,532	\$24,425	\$17,124	\$2,028	\$43,577	\$675,109
Large C&I	C&I Energy Efficient Equipment Program - Large	New Buildings	\$22,478	\$3 662	\$15	\$6,028	\$32.182	\$13	\$9	\$1	\$22	\$32,205
La-pa Ca.	cot Euslink Entroetir Edinthibets Lindustri - Faide	Custom Equipment	\$315,188	\$111	\$74	\$1 294,100	\$1,609,471	\$45	\$32	\$4	\$81	\$1,609,553
		Lighting HfVAC	\$111,078	\$44,542	\$29,575	\$402,100	\$587,295	\$18,182	\$12,747	\$1,510	\$32,438	\$619,734
	C&I Energy Efficient Buildings Program - Large	Audia	\$1,079	\$433	\$287	\$197 245	5189 044	\$177	\$124	\$15	5315	\$189 359
	cost Energy Entreett bondrige Program - Large	Custom Buildings	\$65,021	\$31,128	\$29,320	\$536,180	\$661,647	\$4,596	\$3 222	\$382	\$8,201	\$869,848
Government	Governmental & Institutional Program	Appliances	\$80,320	\$38,450	\$36 219	\$508,119	\$563,108	\$5.678	\$3,981	\$472	\$10 :30l	\$873,238
ou on any and	Governmental a managonal Program	Appliances Audits	\$12,088	\$4,009	\$2,848	\$11,082	\$30,027	\$679	\$476	\$58	\$1,211	\$31,238
		HVAC & Water Heating	\$9,560	\$607	\$731	\$264,459	\$275,357	\$174	\$122	\$14	\$311	\$275,668
			\$396	\$159	\$1,320	\$13,937	\$15.811	\$315	\$22;	\$26	\$561	\$16,373
		Lighting Outdoor Lighting	\$10,98\$ \$4,976	\$4.405	\$36,659	\$26,412	578,461	\$8,738	\$6,126	5726	\$15,590	\$94 051
		Mustamiv	52 976 5321 986		\$16,606	\$110,098	5133.675	\$3,958	\$2,775	\$329	57,062	\$140,737
Grand Total	<u> </u>	JACK BILLY	\$321 986 \$10,447,079	\$18 202 \$986 604	\$12 547	\$74,600	\$427 335	\$2 991	52 097	\$248		\$432,671
	tyélobment morteling employee expenses and legs	<del>-</del>	310,447,079	3 360 604	5613 581	511,072 :53	523 119 716	\$510 859	\$309,169	\$253 877	\$1 073 915	\$24 193 631

Includes costs for plan development, modeling, employee expenses, and legal fees includes Low Income

Appendix C: Program costs and savings by program year o Program Years June 1 - May 31

Salar works in the second	I substance to the miner. To bus, mission representation	TO SHEET THE THE POST OF THE PARTY OF THE PA		and the second	March Done of		A. Program was supposed to		the state of the state of the state of	W		
والمراوان والمراوان		CITY COMP			Direct Cost		Section 19 and 1		Administrative		Part Commonweal	
			10-10-20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			36.50	4.34.25			PORT COL	
3.4							Total	10 m		red de	2013-2015	4.7
Sector		Sub Program	2013-2015 Program ** El-Administration **	2013-2015	2013-2015	4 2013-2015	2013-2015 Direct	2013-2015   above	2013-2015 Tracking	2013-2015	Administrative	2013-2015 Total
Residential	Appliance Turn-In Program	Appliance Turn-In	52 223 289	\$783 000	\$88 516	\$1 276 500	\$4 371 306	\$112.20	580 470	S14 176	\$205.851	\$4 578 156
	Energy Efficient Products Program	Appliances	\$443,604	\$7,686	\$7,443	\$2,031,300	\$2,490,033	52.31-		5289		\$2,494,294
	-	Consumer Electronics	\$270,896	\$0	\$6,476	\$489,050	\$766,421	\$2,02		5241	\$3,709	5770,131
		HVAC & Water Heating	51,074,614	\$133,057	\$5,657	\$2,517,800	\$3,731,128	\$1,76		\$210	\$3,240	\$3,734 368
	l .	tighting	\$1 217 458	\$479 966	\$484 769	\$1 918 800	\$4 060 990	\$144.495		\$18.031	\$266,124	\$4 347.114
	Home Performance Program	Auda	\$1,710,446	\$168,415	\$7,552	51,833,750	\$3,720,163	\$13,19		\$1,656		\$3,744,475
	1	Behavioral T	56,767,307	\$0	\$210,134	\$0	56,977,441	\$368,73		\$46,298		\$7,656,955
		Kes	5472,341	\$65.261	\$6,719	\$1,161,000	\$1,705,342	\$12,29		\$1,543		\$1,727,993
		New Homes	\$713 218	\$70,081	\$188	\$450,000	\$1 233 486	\$321		341	\$604	51,234,090
Residence Low-Income	Low Income Program	Home Performance	\$640,230	\$20,078	5197	50	\$880,505			543		5651,139
		Human Services	\$5,015,396	\$83 793	\$236 426	\$9	\$5 336 615			5661 986		\$6 540 614
Small C&I	C&l Energy Efficient Equipment Program - Small	Appliances	5808,049	\$142,086	\$52,863	\$1,396,053	\$2,399,051	\$58,470		\$7,330		\$2,506,793
	1	Custom Equipment	\$4,158,636	\$1,479	\$1,255	\$1,190,430	\$5,351,601	\$1,38		\$175		\$5,354 359
	1	Food Service	\$14,537	\$5,847	\$4,957	\$2,150,793	\$2,176,135	\$5,491		\$642	\$10,682	\$2,186,217
		HVAC & Water Heating	\$20,010	\$8,047	\$6,619	\$726,646	\$761,522	\$7,581		\$863	\$13,858	\$775,380
		<u>Ughting</u>	5370,279	\$149,072	\$126 S20	\$1,834 674	\$2 480 544	\$139.917	\$100 343	\$17 657	\$257 918	\$2738 462
	C&I Energy Efficient Buildings Program - Small	Audts	\$385,403	\$116,374	\$1,524	\$1,800,600	\$2,303,902	\$1,31	\$945	5170	\$2,432	\$2,306,334
		Custom Bulldings	\$427,318	\$204,583	\$824	\$470,144	\$1,102,850	\$71	2 \$511	\$92		\$1,104,164
		Kits	\$587,463	\$109,689	\$85,498	\$1,078,470	\$1,961,100	\$73,901		\$9,586	\$136,472	\$2,097,572
	<u> </u>	New Buildings	\$66 222	\$10,661	\$44	\$18.084	595,211	\$33		\$5	s70l	\$95 281
Large C&t	C&I Energy Efficient Equipment Program - Large	Custom Equipment	5914,701	\$325	\$215	\$3,753,640	\$4,668,681	513		\$16	\$239	\$4,669,120
	1	Lighting	\$326,725	\$131,537	\$86,839	\$1,206,300	\$1,751,401	\$52,500		\$6,595	\$96,748	\$1,848,150
İ		HVAC	\$3,148	\$1 267	\$837	\$550 093	\$565,346	\$50		\$63	s932	\$566 278
•	C&I Energy Efficient Buildings Program - Large	Audia	\$159,090	\$90,520	<b>\$85</b> ,145	\$1,577,000	\$1,941,756	\$13,225		\$1,670		\$1,968,134
		Custom Buildings	\$238,226	5114 042	\$107 269	\$1 524 357	\$1,983 895			\$2,113		52,014,614
Government	Governmental & Institutional Program	Appliances	\$30,644	\$10,272	\$7,470	\$28,643	\$77,229			\$205		\$80,454
	1	Aud's	\$28,068	\$1,819	\$2,158	\$793,377	\$825,422			\$65		\$826,361
	1	HVAC & Water Heating	\$1,113	\$448	\$3,727	\$41,411	\$46,699	\$89		2:08		\$-\$8,318
	1	Lighting	\$32,312	\$13,009	\$:08,198	\$79 23 <del>0</del>	\$232,755	\$25,55		\$3,235		\$275,863
	1	Outdoor Lighting	\$14,637	\$5,893	\$49.011	\$330,294	\$399,834	\$11,57		\$1,466		\$421,173
Grand Total	<u></u>	Mutulamity	\$945,314	\$81,006	\$37,032	\$223 500	\$1 267,153			\$1,107		\$1 283,276
	evelopment, modeling, employee expenses, and legs		\$30 211,694	\$2,989 493	\$1 802 282	\$32 462 445	\$67,485,914	\$1 456.39	\$907 685	\$797 657	\$3 191,732	\$70 657 647

Includes costs for plan development, modeling, employee expenses, and legal fees \*\* Includes Low Income

Appendix C: Program costs and savings by program year o Program Year is June 1 - May 31

Residential Portfolio	Sec. 18		J. D.	Ž. 7	TRC B	West	Penn⊋. gram Per₀Year (	\$000)				
Program (	Program Year	TRC)	Program Costs   4	Program) Benefits p	Capa Ann Benefits	ity in the William	TANK THE ENG		Pyra Jora	ductions in kW	MWI Annual	Saved
Appliance Turn-in Program	2013 2014 2015 Total	1.3	1,086 1,099 1,117 3.030	242 449 719 3.992	58,109 71,436 128,575 568,069	See foctnote 1	184,016 377,247 590,510 3,424,431	See lootnote 2	583 1,166 1,749	12.808	5,567 11,134 16,701	84.549
Energy Efficient Products Program	2013 2014 2015 Total	1.0	2,921 3,034 3,172 8.363	492 962 1,555 8.432	75,880 98,472 186,828 868,714		415,947 863,098 1,368,302 7,563,260		761 1,607 2,539	20.791	22,804 45,139 70,040	186,665
Home Performance Program	2013 2014 2015 Total	1,0	4,547 4,715 4,705 12.816	3,380 3,541 4,041 13.367	493,920 324,052 413,690 1.412.413		2,886,245 3,217,211 3,627,596 11,954,444		4,955 5,289 5,622	25.373	52,925 59,084 65,244	262.801
Total		1.1	24,209	25,791	2,849,196		22,942,135 [			58,972		534,015

<sup>1:</sup> Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component; therefore, the total avoided capacity costs for Generation, Transmission, and Distribution are displayed here.

<sup>12:</sup> The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.

Residential Low-Income Portfolio					TRC B	West	Penn'⊴ ±″′ gram Per Year (	\$000)				
Program	SProgram Year	TRC	Programs Costs (\$000)	Program ( Benefits (\$000)	Capa Ann Benefits	city ual Gen/T&D	Ener Ann Benefits	oy ial ☑On/Off Peak	Load Re pt Annual	ductions in kW	MWI Annual a	Saved
Low Income Program	2013 2014 2015		2,533 2,196 2,634 6,757	114 177 302 1,675	37,460 44,881 81,546	See footnote 1	76,598 132,499 220,215 1,259,353	See footnote 2	376 732 1,108	0.764	1,542 2,636 4,278	
Total	Total	0.2	6,757	1,675	415.974 415,974		1,259,353		<del>                                     </del>	9,764		30.933

<sup>1;</sup> Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component; therefore, the total avoided capacity costs for Generation, Transmission, and Distribution are displayed here.

<sup>2:</sup> The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.

<sup>3:</sup> Includes Human Services and Home Performance Sub-Programs

# Appendix D: Calculation Methods and Assumptions

NOV % 2 2013
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BURGAN

Appendix D-2: Measure Assumptions

ector /	Program	Sub Program	June 19 Measure	Measure UI	Verilled kWi	Verified kW	NTG	Incremental .	Modeled Rebate	OAN Beneli	Carlo Sou	ce of Savinos	d Source of Incremental Cos
	Appliance Turn-in Program	Appliance Turn-In	Freezer Recycling	1 5.0	C185	0.1069	0.59	50.00)	_ \$50.00	\$0.00	0 2012 PA TRM		Energy Etticiency Consul
	· '	l.	Reingerator Recycling	8.6	0)625	0.0779	0.59	\$0.00	\$5C.00	\$0.00	0 2612 PA TRM		Energy Ethoency Consu
	<u> </u>		Room Ar Conditioner Recycling	4.5	26-	0.8390	<u> 2.59</u>	\$0.00	531.30	\$0.00	0 <sup>1</sup> 2012 PA TRM		Energy Efficiency Consu
	Energy Efficient Products Program	Appliances	Clothes Washer	11.0	143	0.0146	0.32	\$250.00	\$94.00	\$0.00	0 2012 PA TRM		Md-Attentic TRM
	1		Dehumidier	12.0	152		0.32		\$13.00		012012 PA TRM		Ohio TRM
		1	Reingerator	13.0	113		0.32		\$63.00		012012 PA TRM		Mc-Attamac TRM
			Franzer	12.0					\$31.00		12012 PA TRM		Mc-Attante TRM
			Pool Pump Motor	10.0			0.32		\$63.00		2012 PA TRM		Mid-Atlantic TRM
	<b>!</b>	Consumer Electronics	Smart Stro	5.0			0.32		\$13.00		0 2012 PA TFIM		Mid-Attende TRIM
			Television	15.0					\$10.00		0 2012 PA TRM		Energy Efficiency Consu
	l		EE Office Equipment	5.0					\$25.00		0 2012 PA TRM		Energy Efficiency Consu
	1	HVAC & Water Heating	Central Air Connitioner	14.0					\$150.00		0 2012 PA TRM		12008 DEER
	-	The second resulting	Furnace Fan	15.0			<b>€</b> 002		\$100.00		0 2012 PA TRM		Md-Atlantic TRM
			Ground Source Heat Pump	15.0					\$600.00		0 2012 PA TRM		Company Assumption
	ļ		Heat Pump	12.0					\$313.00		0 2012 PA TRM		2008 DEER
			HVAC Martenance	5.0				\$85.00	\$60.00		0 2012 PA TRM		Historic Actuals
			Room Az Concilioner	9.0			£ 2		\$31,00		0 2012 PA TRM		MichAltantic TRUI
			Whole House Fan	15.0			0.32		\$125.00		012012 PA TRM		Energy Efficiency Consu
		'	Ductless Min-Soit	15.0			E 0.32		\$375.00		012012 PA TRM		
			Elticent Water Heater	12.2			200.32	195.06	\$245.00		0 2012 PA TRM		Energy Ellicency Consultant American Electric Consultant (2008) DEER & One TRA
	i i	Lighting	Energy Ellicient Lighting Products	6.6					\$1.00		0 2012 PA TRM		2008 DEER & Chie 1 HA
	1		Torphere Floor Lamp	10.0		AUT (CAS)		\$5.00	\$10.00		0 2012 PA TRV		2006 DEER
	1		LED Holday Lighting	10.0		3910		\$4.86	\$4.00		0 2012 PA TRM		
	Home Performance Program	Auxids	On-line Audit	6.9		V. 20	<u>0.32</u>		\$54,00		0 2012 PA TRM		Company Assumption
	rome renomia ca roquani	~~~	Aut	18.5		A 7 23			\$375.00				Historic Actuals
		Behavioral	Energy Usage Beports	<b></b> N	3 30	0.0206	7.300	2354,40	\$375.00		0 2012 PA TRM		Energy Efficiency Consu
		Kas	Energy Usage Heboris Energy Efficiency Measures	<del> </del>	$\lambda \Delta \Upsilon$	0.0206	Parito	\$0.00			0 Сопрату Асс		N/A
		New Homes	New Construction	15.0		0.0167		\$42.82	\$54.00		0 2012 PA TRM		Historic Actuals
Low-	+	Now Homes	New Construction	1	( 30 S		O'RO	\$2,249.00	\$750.00	\$0.00	Historic Actual	3	Historic Actuals
LDW-		l.,		l _			1						
	Low Income Program	Home Performance	Appliance Replacement	7.0		0.1458			\$0.06		0 2012 PA TRM		No Upfrort Cost to Cust
			Audt - Mustamily	3182					\$0.00		0 2012 PA TRM		No Uphora Cost to Custi
	1	Human Services	Comprehensive		1.79				50.00		O Historic Actual		No Upfrort Cost to Custo
		į.		47 %					\$0.00		0 Historic Actual		Nd Upfront Cost to Custo
	<u> </u>	<u> </u>	Energy Efficiency Measures - Low Income		30	0.0141	0.65	50.00	\$0.00	\$0.00	0 2012 PA TRM	-	No Upfront Cost to Custo

Appendix D-2: Measure Assumptions

D: 学者基	THE STATE OF THE PARTY OF			West Penn	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.0			31-		THE PROPERTY OF THE PARTY OF THE PARTY.
Sector	Program	Sub Program	Measure		Verified kWh	Verified kW		Incremental	Modeled /		A. Source of
Residential	Appliance Turn-In Program	Appliance Turn-In	Freezer Recycling	8.0	863	0 :069	0.59	50 00	\$50.00	\$0.00 2012 PA TRM	Energy Efficiency Consultan
	1		Reingerator Recycling	80		0 0779	0.59		\$50.00	50 0012012 PA TRM	Energy Efficiency Consultan
	Į.		Room Air Conditioner Recycling	4 D		0.6390	0.58		\$31 00	50:00/2012 PA TRM	Energy Efficiency Consultan
	Energy Efficient Products Program	Appliances	Ciotnes Washel	110		0 0146	0 32		\$92 001	50 00 2012 PA TRM	Mid-Atlantic TRM
	1		Dehumid.fiet	12 0	152	0 0097	0 32		\$11.00	\$0 00 2012 PA TRM	One TRM
			Refrigerator	13 0	113	0.0129	0 321		\$61.00	\$0 00 2012 PA TRM	Mid-Atlantic TRM
	J		Freezer	12 0	73	0 0084	0.321		\$29 00	\$0 00 2012 PA TRM	Mid-Atlantic TRM
			Pool Pump Motor	10 0	525	0 2776	0.32		\$63.00	50 00 2012 PA TRM	Mid-Alfantic TRM
	1	Consumer Electronics	Smart Strip	5.0	162	0.0129	0.32	521.00	\$13.00	\$0 00 2012 PA TRM	Mid-Allantic TRM
	ŀ		Television	15.0	249	0.0380	0.32	\$1,00	\$10.00	\$0.00 2012 PA TRM	Energy Efficiency Consultan
	ı	I	EE Office Equipment	5.0	175	0 0236	0 32	\$1,00	\$25 00	\$9.00 2012 PA TRM	Energy Efficiency Consultan
		HVAC & Water Heating	Central Air Conditioner	140		0.1167	0.32	\$357.00	\$150.00	\$0.00(2012 PA TRM	2008 DEER
		1	Fernace Fan	15.0	450	0 1228	0 32	\$200.001	\$100.00	50 0012012 PA TRM	Mid-Atlantic TRM
	Į.		Ground Source Heat Pump	15 0	2 643	0.0319	0 32	\$19,000,00	3600 QQ	\$0.0012012 PA TRM	Company Assumption
			Heat Pump	12 0		0 1167	0 32		\$313 00	50 0012012 PA TRM	2008 DEER
			HVAC Maintenance	5.0		0 2602	0.32		560 00	50 00 2012 PA TRM	Historic Actuals
			Room Air Conditioner	9.0	24	0.0635	0 32		\$29 00	50 00 2012 PA TRM	Mid-Atlentic TRM
			Whole House Fan	15 0	223	0 0000	0 32		\$125 001	50 00 2012 PA TRM	Energy Efficiency Consultan
			Ductiess Mini-Spirt	15.0		0 2070	0.32		\$375 00	50 00 2012 PA TRM	Energy Efficiency Consultan
	ł	i	Efficient Water Heater	12.2	959	0 0879	0.32		\$245.00	50.00/2012 PA TRM •	2008 DEER & One TRM
		Lighting	Energy Efficient Lighting Products	6.6		0 0013	0.32	\$2 47	\$1 0G	\$0.00 2012 PA TRM	2008 DEER
			Torothere Floor Lamp	100	57	0 0048	0 32	\$5 001	\$10.00	\$0.00 2012 PA TRM	12008 DEFR
	Į .		LED Holiday Lighting	10.0	11	0 00001	0 32	\$4 66	\$4 00	\$0.00 2012 PA TRM	Company Assumption
	Home Performance Program	Audits	On-Line Audit	69	497	0.01961	0.65	542 82	\$54.00	50.00 2012 PA TRM	Hustonic Actuals
	1		Acat	10.5	672	0 2089	0.65		\$375.00	50 0012012 PA TRM	Energy Efficiency Consultan
		Behavioral	Energy Usage Reports	10	298	0.0206	1.00		\$0.00	50 00 Company Assumption	N/A
		Kds	Energy Efficiency Measures	5,₽	347	0.0167	0.81	\$42,82	\$54 00	\$0.00 2012 PA TRM	Historic Actuals
	1	New Homes	New Construction	15 0	1.552	0 4312	080		\$750 00	50 00 Historic Actuals	Historic Actuals
Residential Low-	Low Income Program	Home Performance	Appliance Replacement	7 0		0 1458	0.65		\$0.00	\$0 00 2012 PA TRM	No Upfront Cost to Customer
Income	l	<u> </u>	Audit - Multifamily	10 5	672	0 2089	0.65		\$0.00	\$0.00 2012 PA TRM	No Uptont Cost to Customer
	1	Human Services	Comprehensive	80		0 4881	1 00	\$0.00	\$0.00	50 00 histone Actuals	No Uptiont Cost to Customer
	1		Extra Measures	8.0	292	0.0206		50 00	\$0.00	\$0.00 Historic Actuals	No Upfront Cost to Customer
		1	Energy Efficiency Measures - Low Income	56	308	0.0141			\$0.00	\$0.00 2012 PA TRM	No Upfront Cost to Customer

## Appendix D-3: Number of Units o Program Year is June 1 - May 31

Program Name	Sub Program.	Measure Name	2013 Units	'2014 Units'	2015 Units
poliance Turn-In Program	Appliance Turn-In	Refrigerator Recycling	7,000		7,00
	1	Freezer Recycling	1,200	1,200	1,20
		Room Air Conditioner Recycling	500	500	50
Iome Performance Program	Audits	On-Line Audit	7,500	7,500	7,50
·		Audit	550	550	55
	Behavioral	Energy Usage Reports	225,000	225,000	225,00
	Kits	Energy Efficiency Measures	7.500	7,500	7,50
	New Homes	New Construction	200	200	20
nergy Efficient Products Program	Appliances	Clothes Washer	4,250	4,250	4,25
		Dehumidifier	1,100	1,100	1,10
		Refrigerator	4,000	4,000	4,00
		Freezer	7,000 7,000 1,200 1,200 500 500 7,500 7,500 550 550 225,000 225,000 7,500 7,500 200 200 4,250 4,250 1,100 1,100	60	
		Pool Pump Motor	200	200	20
	Consumer Electronics	Smart Strip	800	1,200	1,60
		Television	2,600	2,800	3,20
		EE Office Equipment	4,250	4.750	5,2
	HVAC & Water Heating				4,8
	.	Central Air Condition	275	275	2
		Central Air Condition Ground Source Haid Hump Whole House Fan	110		11
		Whole House Fan	100		1:
		Roam Air Conditioner			1,2
		Furnace Fair			9
		Heat Pump			1
	_   <b>&lt;</b>	Ductless kini soft			4
		Ptricient Haze Heater			8
	Lighting	Steary Enident Links of Products		632,000	632,0
	_	For the Floriday Lighting		I - 1	
	- Fair	ED Refer Lighting			1.8
ow Income Program	Home Performance	A Miance Replacement Aud Multifamily			1
		Aud Multifamily			1
	Human Service	Compehensive			3
		Exta Measures		690	6
		Engy Efficiency Measures - Low Income	2,000		2,0

Appendix D-3: Number of Units

NACON TO SOME DESCRIPTION OF THE PROPERTY OF T		To a. West Penn		Y2125 - T	SEASTREE .
Program Name	Sub Program	Measure Name	2013 Units	2014 Units	2015 Units
Appliance Turn-In Program	Appliance Turn-In	Refrigerator Recycling	7,000	7,000	7,000
	1	Freezer Recycling	1,200	1,200	1,200
		Room Air Conditioner Recycling	500	500	500
Home Performance Program	Audits	On-Line Audit	7,500	7,500	7,500
		Audit	550	550	550
	Behavioral 1	Energy Usage Reports	224,000	224,000	224,000
	Kits	Energy Efficiency Measures	7,500	7,000	7,000
	New Homes	New Construction	200	200	200
Energy Efficient Products Program	Appliances	Clothes Washer	4,250	4,250	4,250
		Dehumidifier	1,100	1,100	1,100
	Refrigerator 4,000	4,000	4,000		
		Freezer	600		600
		Pool Pump Motor	200	200	200
	Consumer Electronics	Smart Strip	800	1,200	1,600
	1	Television	2,600	2,800	3,200
		EE Office Equipment	4,250	4,750	5,250
	HVAC & Water Heating	HVAC Maintenance	3,200	4,000	4,800
		Central Air Conditioner	275	275	275
		Ground Source Heat Pump	110	110	110
	Ļ	Whole House Fan	100	125	150
	1	Room Air Conditioner	1,200	1,200	1,200
		Fumace Fan	500	700	900
		Heat Pump	175	150	100
		Ductless Mini-Split	300	350	400
		Efficient Water Heater	800	800	800
	Lighting	Energy Efficient Lighting Products	632,000	632,000	632,000
		Torchiere Floor Lamp	40	40	40
		LED Holiday Lighting	1,800	1,800	1.800
Low Income Program	Home Performance	Appliance Replacement	60	60	60
		Audit - Multifamily	150	150	150
	Human Services	Comprehensive	423	423	423
	,	Extra Measures	6,057	6,057	6,057
1. Included by Income	<u> </u>	Energy Efficiency Measures - Low Income	2,100	L	2,100

<sup>1.</sup> Includes Low Income

Appendix D-4: Calculation Methods and Assumptions - Rebate Strategy

Program MA	Measure Name 272	Eligibility / Description : Act at a	Rebale Strategy 24 22 4 1
-	Air Conditioning - Non Profit	Replacement or new installation of a Single Package or Split System AC, fundary air, water or evaporatively cooled) exceeding IECC 2006 Table 503.2.3 (1)	Чр to \$75 / Ton
	Heat Pump - Non Profit	Replacement or new installation of a Single Package or Split System HP, (unitary air, water or evaporatively cooled) exceeding IECC 2006 Table 503.2.3 (1)	Up to \$75 / Ton
	Ground Source Heat Pump - Non Profit	Replacement or new Grounnd Water & Source Heat Pumps < 135kBtuH, meeting CEE Tier 1 of >=15.5EER Cool & >=3.5 COP Heat	Up to \$75 / Ton
	PTAC - Non Profit	Replacement or new installation of units meeting CEE Tier 1 of >=11.6 EER Cook	Up to \$150 per Unit
	PTHP - Non Profit	Replacement or new installation of units meeting CEE Tiert of >=11.2 Cool 8 > processing.	Up to \$150 per Unit
•	Room Air Conditioner - Non Profit	Purchase and installation of Energy Star (>=9.4 EER) or CEE SHEA Tier 1 (>=3.6 ER) quality of units	Up to \$45 per Unit
	Efficient Water Heater - Non Profit	Replacement of existing electric storage tank type units heaterly Residue Electric Electric Storage tank type units heaterly Residue Electric Stor	Solar = Up to \$500 Heat Pump = Up to \$300 EE Resistive = Up to \$125
Governmental & Institutional Program	Retrigerator Recycling - Non Profit	Removal of an existing inefficient unit generally older this Revears trouvering prior to end of useful tite thru recycling	Up to \$50 per Unit
	Freezer Rocycling - Non Profit	Removal of an existing politicient units energy over the 10 years from service prior to end of useful tite that recycling	Up to \$50 per Unit
	Room Air Conditioner Recycling - Non Profit	Removal of an existing inefficient stiffs from seasons for to end of useful Life thru recycling	Up to \$50 per Unit
	Reingerator - Non Profit	Purchase and installator side meanification either Energy Star or CEE Tier 2, >=20% or >=25% respectively lower energy consumption page in leading standard.	Up to \$78 per Unit
	Freezer - Non Prolit	Purchase and install long of the meeting other Energy Star or CEE Tier 2, >> 20% or >= 25% respectively lower energy condumn tion than the federal standard.	Up to \$78 per Unit
;	EE Office Equipment - Non Profit	Purchase are retatation of Energy Star qualifying units	N/A
	Audit - Mutifamily - Govt	in productive direct install measures. Also provides incentive for comprehensive measures including but not limited to: Notows, Duct Sealing, and Wall & Attic Insulation, etc., Eligible to customers wheleovic water hearing, and/or central electric HVAC systems.	Audit = \$250 + Recommendations up to \$.11/kWh
	Energy Efficiency Measures - Mututamily - Govt	Opt in Kit with energy efficiency measures including but not limited to: CFLs, Night Lights etc. mailed at customers request. Adoption of an energy efficiency school curriculum provided by teachers or districts which encourages efficient practices & installation of efficiency measures at home.	. Up to \$100 in EE Measures

Appendix D-4: Calculation Methods and Assumptions - Rebate Strategy

Program 🕒 💆	Measure Name	Eligibility / Description	Rebate Strategy 6 3 771
	Air Conditioning - Non Profit	Replacement or new installation of a Single Package or Split System AC, (unitary air, water or evaporatively cooled) exceeding IECC 2006 Table 503.2.3 (1)	Up to \$75 / Ton
	Heat Pump - Non Profit	Replacement or new installation of a Single Package or Split System HP, (unitary air, water or evaporatively cooled) exceeding IECC 2006 Table 503.2.3 (1)	Up to \$75 / Ton
	Ground Source Heat Pump - Non Profit	Replacement or new Grounnd Water & Source Heat Pumps < 135kBtuH, meeting CEE Tier 1 of >=15.5EER Cool & >=3.5 COP Heat	Up to \$75 / Tan
	PTAC - Non Profit	Replacement or new installation of units meeting CEE Tier 1 of >=11.6 EER Cool	Up to \$150 per Unit
}	PTHP - Non Profit	Replacement or new installation of units meeting CEE Tier1 of >=11.2 Cool & >=3.4 COP Heat	Up to \$150 per Unit
	Room Air Conditioner - Non Profit	Purchase and installation of Energy Star (>=9.4 EER) or CEE SHEA Tier 1 (>=9.8 EER) qualifying units	Up to \$45 per Unit
	Efficient Water Heater - Non Pro£t	Replacement of existing electric storage tank type units heated by Resistive Elec. w EF >.93, HP w/ EF >2.0 & Solar w/ EF >1,84	Solar = Up to \$500 Heat Pump = Up to \$300 EE Resistve = Up to \$125
Governmental & Institutional	Refrigerator Recycling - Non Prof.t	Removal of an existing inefficient unit generally older than 10 years from service poor to end of useful life thru recycling	Up to \$50 per Unst
Program	Freezer Recycling - Non Profit	Removal of an existing Inefficient unit generally older than 10 years from service prior to end of useful life thru recycling	Up to \$50 per Unit
	Room Air Conditioner Recycling - Non Profit	Removal of an existing inefficient unit from service prior to end of useful life thru recycling	Up to \$50 per Unit
	Refrigerator - Non Profit	Purchase and installation of a new unit meeting either Energy Star or CEE Tier 2, >=20% or >=25% respectively lower energy consumption than the federal standard.	Up to \$78 per Unit
	Freezer - Non Profit	Purchase and installation of a new unit meeting either Energy Star or CEE Tier 2, >=20% or >=25% respectively lower energy consumption than the federal standard.	Up to \$78 per Unit
	EE Office Equipment - Non Profit	Purchase and installation of Energy Star qualifying units	N/A
	Audit - Muturamity - Govt	In-Home Audit wild direct install measures. Also provides incentive for comprehensive measures including but not limited to: Windows, Duct Sealing, and Wall & Atho Insulation, etc., Eligible to customers will electric water heating, and/or central electric HVAC systems.	Aud.t = \$250 + Recommendations up to \$,11/kWh
,	Energy Efficiency Measures - Multifamily - Govt	Opt in Kit with energy efficiency measures including but not limited to: CFLs, Night Lights etc. mailed at customers request. Adoption of an energy efficiency school curriculum provided by teachers or districts which encourages efficient practices & installation of efficiency measures at home.	Up to \$100 in EE Measures
	Custom - Non Profit	Replacement or retrofit of existing equipment with greater efficient equipment or process changes, including motors.	Same as applicable measure in " Small / Large C&I

# Appendix E: PUC Tables 1:

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Appendix E

Table 1: Portfolio Summary of Lifetime Costs and Benefits

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	:Portfolio S	ummary of Life	time Costs and	Benefits	
- Portfolio	Discount∖ Rate	Discounted Lifetime. Costs		ive¹Lifetime. Le∵efits	
Residential (exclusive of Low- Income)	9.15%	24,312,234	Ma	1,606,867	1.1
Residential Low- Income	9.15%	6,600 80	1,284,146	(5,316,034)	.0.2
Commercial/ Industrial Small	9.15%	20 998, 194	34,047,674	7,148,880	1.3
Commercial/ Industrial Large	9.15%	18,854,915	52,132,639	33,277,724	2.8
Governmental/ Educational/ Non-Profit	9.15%	2,336,170	2,362,874	26,704	1.0
Total	9.15%	79,002,293	115,746,433	36,744,140	1.5

<sup>1.</sup> This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be further redlined consistent with Commission requirements for changes to the plans.

Appendix E

Table 1: Portfolio Summary of Lifetime Costs and Benefits

	. Portfölio S	Westif	A	Benefits	
Portfolio	Discount Rate	≟ Lifetime Costsi	Total Discounted Lifetime Benefits (\$000)	Discounted Net Lifetime Benefits	Cost-Benefit Ratio (TRC)
Residential (exclusive of Low- Income)	9.15%	24,209,174	25,791,330 ·	1,582,156	1.1
Residential Low- Income <sup>1</sup>	9.15%	6,756,681	1,675,327	(5,081,354)	0.2
Commercial/ Industrial Small	9.15%	26,898,794	34,047,674	7,148,880	1.3
Commercial/ Industrial Large	9.15%	18,854,915	52,132,639	33,277,724	2.8
Governmental/ Educational/ Non-Profit	9.15%	2,336,170	2,362,874	26,704	1.0
Total	9.15%	79,055,734	116,009,844	36,954,110	1.5

<sup>1.</sup> Includes Human Services and Home Performance Sub-Programs

Appendix E
Table 2: Summary of Portfolio Energy and Demand Savings
o Program Year is June 1 - May 31

	* * * * * * * * * * * * * * * * * * *	West Penn		6 9 2 1 1 A	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	000000000000000000000000000000000000000		
Summ	ary.of.Portfo	lio Energy a	nd Demand	Savings: 0*	T. (1.78)			
	L I Program	Year 2013).	Program,	rear 2014 o	Frogram	Year ZU15 %	ENERGY CONTRACTOR	itales, 150
MWh and kW Saved for Consumption	Saved	Saved	Saved	Saved	Saved	Saved	Saved	Saved
Baseline <sup>1</sup>	20,938,650		20,938,650		20,938,650	١	20,938,650	
Residential Sector	73,682	5,723	106,244	7,402	139377	9,159	139,317	9,159
'exclusive of Low- Income) -	1			-		]	1	i '
Cumulative Projected Portfolio			,			<b>A</b>		
Savings <sup>2</sup>						W.		
Residential Low-Income Sector -	9,256	801	12,746	1,078	<b>6</b> 907	82	16,907	1,382
Cumulative Projected Portfolio					Br War	<i>O</i>	İ	
Savings <sup>2 4</sup>			ļ					
Commercial/Industrial Small	24,287	3,143	50,151	<b>6</b> 1307	7 14	9,851	75,914	9,851
Sector - Cumulative Projected	1		NY NY		AT .		1	
Portfolio Savings <sup>2</sup>								
Commercial/Industrial Large	19,986	2,618	41 131	372	62,135	8,103	62,135	8,103
Sector - Cumulative Projected		İ						
Portfolio Savings²	<u> </u>	A		4	ļ			
Governmental/Educational/Non-	17,044	VEN 5	36.506	3,808	53,927	5,794	53,927	5,794
Profit Sector - Cumulative Projected				7		i	ł	
Portfolio Savings <sup>2 5</sup>		10					<u> </u>	<u> </u>
EE&C Plan Total -	144,255	44.001	845,788	24,169	348,200	34,289	348,200	34,289
Cumulative Projected Savings			(A)			<u> </u>	ļ	<u> </u>
Estimated Phase I Carryover	12)		ı					'
Savings	A		ļ	<u> </u>	ļ		<u> </u>	ļ
Total Cumulative Projected	144(255	102	245,788	24,169	348,200	34,289	348,200	34,289
Savings Phase II + Estimated	MA MA							}
Phase I Carryover Savings	140						L	ļ
EE&C Plan Total -	43%		73%		103%	<b> </b> .	103%	
Percentage of Target to be Met <sup>1</sup>			4.004		1 70/			-
Percent Reduction From Baseline	100 %	<del> </del>	1.2%		1.7%		1.7%	
Commission Identified Goal	199/		220/	<u> </u>	337,533		337,533	-
Percent Savings Due to Portfolio	18%		23%	1	3%		3%	

<sup>&</sup>lt;sup>1</sup> As defined in the August 2, 2012 Implementation Order, Docket No. M-2012-2289411.

<sup>&</sup>lt;sup>2</sup> Adjusted for weather and extraordinary load as applicable.

<sup>&</sup>lt;sup>3</sup> The August 2, 2012 Implementation Order directed that at least 25% of an EDC's target amount in each program year.

<sup>&</sup>lt;sup>4</sup> Includes Low Income participation allocated to Low Income sector from Residential Sector

<sup>&</sup>lt;sup>5</sup>Includes Multi Family participation allocated to Government sector from Small/Large C&I sector

<sup>&</sup>lt;sup>6</sup> This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be further redlined consistent with Commission requirements for changes to the plans.

#### Table 2: Summary of Portfolio Energy and Demand Savings

Summ							W	2
	Program	rear 2013	Program	rear 2014	☑Program \	rear 2015	То	7
MWh and kW Saved for Consumption	MWh Savedi	kW Saved	MWh Saved	k <b>W</b> , Saved	MWh Saved	kW Saved	MWh Saved	kW Saved
Baseline <sup>1</sup>	20,938,650		20,938,650		20,938,650		20,938,650	
Residential Sector (exclusive of Low- Income) - Cumulative Projected Portfolio	73,497	5,705	105,885	7,377	138,785	9,127	138,785	9,127
Savings <sup>2</sup> Residential Low-Income Sector - Cumulative Projected Portfolio Savings <sup>2 4</sup>	9,441	970	13,108	1,417	17,478	1,891	17,478	1,891
Commercial/Industrial Small Sector - Cumulative Projected Portfolio Savings <sup>2</sup>	24,287	3,143	50,161	6,507	75,914	9,851	75,914	9,851
Commercial/Industrial Large Sector - Cumulative Projected Portfolio Savings <sup>2</sup>	19,986	2,618	41,131	5,372	62,135	8,103	62,135	8,103
Governmental/Educational/Non- Profit Sector - Cumulative Projected Portfolio Savings <sup>2,5</sup>	17,044	1,815	35,506	3,808	53,927	5,794	53,927	5,794
EE&C Plan Total - Cumulative Projected Savings Estimated Phase I Carryover	144,255	14,251	245,792	24,482	348,239	34,767	348,239;	34,767
Savings						··		
Total Cumulative Projected Savings Phase II + Estimated Phase I Carryover Savings	144,255	14,251	245,792	24,482	348,239	34,767	348,239	34,767
EE&C Plan Total - Percentage of Target to be Met <sup>1</sup>	43%		73%		103%		103%	
Percent Reduction From Baseline	0.7%		1.2%		1.7%		1.7%	
Commission Identified Goal Percent Savings Due to Portfolio Above or Below Commission Goal	18%		23%		337,533 3%		337,533 3%	

<sup>&</sup>lt;sup>1</sup> As defined in the August 2, 2012 Implementation Order, Docket No. M-2012-2289411.

<sup>2</sup> Adjusted for weather and extraordinary load as applicable.

<sup>3</sup> The August 2, 2012 Implementation Order directed that at least 25% of an EDC's target amount in each program year.

<sup>4</sup> Includes Low Income participation allocated to Low Income sector from Residential Sector and targeted Energy Usage Reports

<sup>5</sup> Includes Multi Family participation allocated to Government sector from Small/Large C&I sector

Appendix E
Table 3: Summary of Portfolio Costs
o Program Year is June 1 - May 31

	Summa	West Peni ry of Portfo	າ lio∣Costs			
THE SAMESTER OF THE	Program Year		Program Yea		Program Yea	r 2015
	Portfolio Budget (\$)	%/of Portfolio Budget	Portfolio)54 dget	l‰ōf Portfolio Budget		% of .Portfolio .Budget
Residential Portfolio (exclusive of Low- income) Annual Budget	9,844,732	43%		44%.	10,417,156	43%
Residential Low-Income Portfolio Annual Budget	2,422,135	11%	2,088,845	9%	2,520,180	10%
Commercial/Industrial Small Portfolio Annual Budget	6,136,090	27%	6,485,019	28%	6,543,453	27%
Commercial/Industrial Large Portfolio Annual Budget	3,576212	16%	3,726,351	16%	3,761,732	16%
Governmental/Educational/Non- Profit Portfolio Annual Budget	967,937	4%	980,782	4%	990,737	4%
Total Portfolio Annual Budget	22,947,106	100%	23,508,877	100%	24,233,258	100%

<sup>1.</sup> This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be further redlined consistent with Commission requirements for changes to the plans.

Appendix E

Table 3: Summary of Portfolio Costs
o Program Year is June 1 - May 31

	Summa	West Pen	n blio:Costs			
	Program Yea	r 2013 🛷	Program Yea	r 2014	Program Yea	r 2015
	Portfolio Budget (\$)	%of∕ Portfolio ⊭Budget∷	Portfolio Budget (\$)	% of Portfolio Budget	Portfolio Budget (\$)	⊳⊸% of Portfolio ☑Budget
Residential Portfolio (exclusive of Low- Income) Annual Budget	9,812,848	43%	10,142,914	43%	10,331,817	43%
Residential Low-Income Portfolio Annual Budget <sup>1</sup>	2,479,422	11%	2,142,330	9%	2,580,002	11%
Commercial/Industrial Small Portfolio Annual Budget	6,136,090	27%	6,485,019	28%	6,543,453	27%
Commercial/Industrial Large Portfolio Annual Budget	3,576,212	16%	3,726,351	16%	3,761,732	16%
Governmental/Educational/Non- Profit Portfolio Annual Budget	967,937	4% .	980,782	4%	990,737	4%
Total Portfolio Annual Budget	22,972,508	100%	23,477,398	100%	24,207,741	100%

<sup>1.</sup> Includes Human Services and Home Performance Sub-Programs

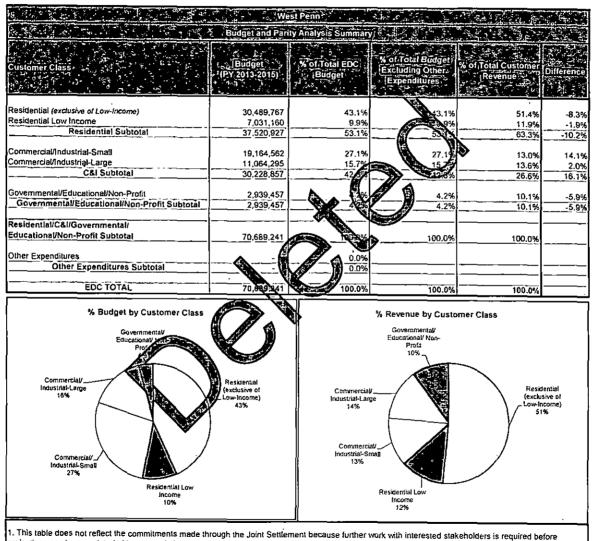
Appendix E Table 4: Program Summaries

	Program Name	Program Market si	West Penn Program Summaries	THE RESERVE OF		And the second	The second second	Percentage o Total Lifetim MWh savings
Residential Portfolio Programs (exclusive of Low Income)	Appliance Turn-In Program	RES	This program provides rebates to consumers for turning time working refrigerator, freezer, or room air-conditioner.	4	84,549	12,808	4.8%	3.1%
	Energy Efficient Products Program	RES	This program provides rebates to consumers and financial incentives and support to retailers and magnificant products. such as HVAC suipment appliances, lighting, home electronics are other products.	4	186,665	20,791	20,1%	6.9%
	Home Performance Program	RES	This program provides energy efficiency education and awareness along with messages and recitives for customers to conserve energy in their name	4	265,592	25,542	18.9%	9.8%
•	Totals for Residential Sector				536,807	59,141	43.8%	19.8%
Residential Low- Income Sector Programs	Low Income Program	LIRES	This program provide basic to comprehensive whole house me sares, and had mail or direct installation, and estimates assomers about their home's energy use and ways to save energy by by-income households.	4	26,002	5,298	1.1%	1.0%
•	Totals for Low-Income Sector				26,002	5,298	1.1%	1.0%

Appendix E Table 4: Program Summaries

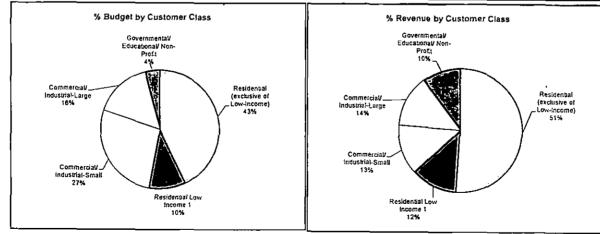
	Program Name	<b>有题的</b>	West Penn Program Summaries 5.2. Program I wo Sentence Summary	Program .		Net Peak	Percentage of	MWh savings %
	Appliance Turn-In Program	RES	This program provides rebates to consumers for turning in a working refrigerator, freezer, or room air-conditioner.	4	84,549	12,808	4.8%	3.1%
Residential Portfolio Programs (exclusive of Low Income)	Energy Efficient Products Program	RES	This program provides rebates to consumers and financial incentives and support to retailers and manufacturers that sell energy efficient products, such as HVAC equipment, appliances, lighting, home electronics and other products.	4	186,665	20,791	20.1%	6.9%
	Home Performance Program	RES	This program provides energy efficiency education and awareness along with measures and incentives for customers to conserve energy in their homes.	4	262,801	25,373	18.7%	9.7%
	Totals for Residential Sector				534,015	58,972	43.6%	19.7%
Residential Low- Income Sector Programs	Low Income Program <sup>1</sup>	LI RES	This program provides basic to comprehensive whole house measures, through direct mail or direct installation, and educates customers about their home's energy use and ways to save energy to low-income households.	4	30,933	9,764	1.2%	1.1%
	Totals for Low-Income Sector	<u> </u>			30,933	9,764	1.2%	1.1%
1. Includes Human	Services and Home Performance Sub-Programs							

Appendix E
Table 5: Budget and Parity Analysis Summary
o Through Program Year 2015



Appendix E
Table 5: Budget and Parity Analysis Summary
o Through Program Year 2015

and the second second	y We	st Pennis 🧀 📜	1 to 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Budget and Pari	ty Analysis Summari	遺伝 関いたのです		100
Customer Class	(PY 2013-2015)	% of Total EDC Budget	% of Total Budget Excluding Other Expenditures	% of Total Customer Revenue	Difference
Residential (exclusive of Low-Income)	30,287,579	42.9%	42.9%	51.2%	-8.3%
Residential Low Income 1	7,201,754	10.2%	10.2%	12.2%	-2.0%
Residential Subtotal	37,489,333	53.1%	53.1%	63.3%	-10.3%
Commercial/Industrial-Small	19,164,562	27.1%	27.1%	13.0%	14,1%
Commercial/Industrial-Large	11,064,295	15,7%	15.7%	13.6%	2.0%
C&I Subtotal	30,228,857	42.8%	42.8%	26.6%	16.2%
Governmental/Educational/Non-Profit	2,939,457	4.2%	4.2%	10.1%	-5.9%
Governmental/Educational/Non-Profit Subtotal	2,939,457	4.2%	4.2%	10.1%	-5.9%
Residential/C&I/Governmental/		<del></del>			
Educational/Non-Profit Subtotal	70,657,647	100.0%	100.0%	100.0%	
Other Expenditures	_	0.0%			
Other Expenditures Subtotal		0.0%			
EDC TOTAL	70,657,647	100.0%	100.0%	100.0%	



1. Includes Human Services and Home Performance Sub-Programs

Appendix E

Table 6A: Portfolio-Specific Assignment of EE&C Costs

West/Pen	n -							
Residential Portfolio (exc	luding Low-Inco	mē) 🤄 🚉 🥍						
	Cost Elements (\$)							
(EE&CIProgram)	Total Incentives	Operation & Costs	Total Budget <sup>p</sup> ((2013-2015))-3					
Appliance Turn-In Program	. 1,276,500	3,094,806	4,371,306					
Energy Efficient Products Program	7,023,850	4.158.961	11,176,801					
Home Performance Program	3,498,750	10/23/1640	13,730,390					
Totals	11,789,700	17,47,9,397	29,278,497					

				_	
Manager 1995		<b>West Ren</b>	in is see		
	Resid	ential Love nco	ome <b>Porticlio</b>		
				ost Elements (§	
EE8	C Program 🧈				Total Budget
			it ar incentives	Operations costs	(2013-2015)
Low Income Program			0	5,826,527	5,826,527
	Totals	M	0	5,826,527	5,826,527
	Total	ial .	<u> </u>		

1. This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be further redlined consistent with Commission requirements for changes to the plans.

Appendix E

Table 6A: Portfolio-Specific Assignment of EE&C Costs

₩est Ren	n Salatini i					
Residential Portfolio (exc	luding Low-Inco	me)	173			
	Cost Elements (\$)					
EE&C Program	Total Incentives	Operations Costs	Total Budget (2013-2015)			
Appliance Turn-In Program	1,276,500	3,094,806	4,371,306			
Energy Efficient Products Program	6,956,950	4,111,622	11,068,572			
Home Performance Program	3,444,750	10,191,682	13,636,432			
Totals	11,678,200	17,398,110	29,076,310			

West Pen	n i i i i i i i i i i i i i i i i i i i		
Residential Low-Inco	me Portfolio		Translater,
		ost Elements (\$	
EE&C Program	Total Incentives	Operations Costs	Total Budget
	197		(2013-2015) R
Low Income Program <sup>1</sup>	0	5,997,120	5,997,120
Totals	0	5,997,120	5,997,120

<sup>1.</sup> Includes Human Services and Home Performance Sub-Programs

Table 6C: Summary of Portfolio EE&C Costs

West Penn	Total Sector + Portfolio-specific Costs	Total Common Costs	Total of All Costs
Residential (including Low-Income)	\$35,105,024	\$2,415,903	37,529,927
Commercial/ Industrial-Small	\$18,632,115	55/2,447	\$19,164,562
Commercial/ Industrial-Large	\$10,911,278	\$81,53,017	\$11,064,295
Governmental/Educational/ Non-Profit	\$2,990,007	\$90,365	\$2,939,457
Totals	\$67,59,509	\$3,191,732	\$70,689,241

## Appendix ETable 6C: Summary of Portfolio EE&C Costs

. West Penn	Total Sector Portfolio-specific Costs	Total Common Costs	Total of All Costs
Residential (including Low-Income)	\$35,073,429	\$2,415,903	\$37,489,333
Commercial/ Industrial-Small	\$18,632,115	\$532,447	\$19,164,562
Commercial/ Industrial-Large	\$10,911,278	\$153,017	\$11,064,295
Governmental/Educational/ Non-Profit	\$2,849,091	\$90,365	\$2,939,457
Totals	\$67,465,914	\$3,191,732	\$70,657,647

Appendix E

Table 7A: TRC Benefits Table

Residential Portfolio		(			ALL TRO	Pononie d	West Penni y Program P					
(exclusive of Low-Income)			Program	Program	Capa		Yiri ograliti Ene	er/rear (SUL	Load Reduc	tions in kW	MWh	Saved
Program		TRC	√Costs™ N(\$000):				Anr Benefits	iuale.			a Annual	
	2013		1,086	242	58,109	See footnote 1	184,016	See footnote 2	583	t -tellecille	5,567	Firmennise".
Appliance Turn-In	2014		1,099	449	71,436		377,247	1881	1,166		11,134	
Program	2015	<u></u>	] 1,117 ]	719	128,675		590,510		1,749	]	16,701	
	Total	1.3	3,030	3,992	568,069		3,424,431			12,808		84,549
	2013		2,921	492	75,880		415,947		761		22,804	
Energy Efficient	2014		3,054	962	98,472		863,098		1,607	!	46,139	
Products Program	2015		3,193	1,555	186,828		1,2585308		2,539		70,040	
	Total	1.0	8,399	8,432	868,714		£63,2 <b>6</b> 0			20,791		186,665
	2013		4,557	3,394	495,974	A	2,697,987	<b>(6)</b>	4,976		53,133	•
Home Performance	2014	'	4,748	3,563	325,730		328,448		5,316		59,466	
Program	2015		4,738	4,074	416,205	<b>€</b> ₹	3,657,500		5,657		65,799	
	Total	1.0	12,883	13,495	1,421,094		2,073,533			25,542		265,592
Total		1.1	24,312	25,919	2,857,877	M	28,061,223		_	59,141	_	536,807

- 1: Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by composed, therefore, the total avoided capacity costs for Generation, Transmission, and Distribution are displayed here.
- 2: The on and off peak energy costs are combined in a sum of a combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.
- 3. This table does not reflect the commitments prace through the point Settlement because further work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be order consistent with Commission requirements for changes to the plans.

Appendix E

Table 7A: TRC Benefits Table

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1800年	de	Me 3 3	Program	1Program	Capa	city	Ene	rgy	Load Reduc	tions in kW	MWh	Saved :
	Programi		Costs	Benefits	Ann	iual	Anr	iual 💮 🔣				And the second
Program	Yéar.	TRC	(\$000)	(\$000)	Benefits	(Gen/T&D)	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime
	2013		1,086	242	58,109	See footnote 1	184,016	See footnote 2	583		5,567	
Appliance Turn-In	2014		1,099	449	71,436		377,247		1,166	l	11,134	
Program	2015		1,117	719	128,675		590,510		1,749		16,701	1
	Total	1.3	3,030	3,992	568,069		3,424,431			12,808		84,549
	2013		2,921	492	75,880		415,947	)	761		22,804	
Energy Efficient	2014		3,034	962	98,472		863,098		1,607	1	46,139	
Products Program	2015	<u>.                                  </u>	3,172	1,555	186,828		1,368,302		2,539		70,040	1
	Total	1.0	8,363	8,432	868,714		7,563,260			20,791		186,665
	2013		4,547	3,380	493,920		2,886,245		4,955		52,925	
Home Performance	2014		4,715	3,541	324,052		3,217,211		5,289		59,084	
Program	2015		4,705	4,041	413,690		3,627,596		5,622		65,244	
	Total	1.0	12,816	13,367	1,412,413		11,954,444		,	25,373	,	262,801
Total		1.1	24,209	25,791	2,849,196		22,942,135		•	58,972		534,0

<sup>1:</sup> Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component; therefore, the total avoided capacity costs for Generation, Transmission, and Distribution are displayed here.

<sup>2:</sup> The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.

#### Table 7B: TRC Benefits Table

	0 : 10g:00: 1000 1000 1	10.2, 01											
the care	Residential Low					T	RC Benefits E	West Penn W Program	Per Year (\$00	。 (1)			
ì	Income Portfolio	Program is a real									mar mountains and the	The second of	
		20	92.3	Program	(Program)	Ca Ca	oacity	Er <u>ز ب</u>	iergy, we	aLoad Redu	CTIONS IN KW	MWN	Saved
1		Program	\$ " . * * * * * * * * * * * * * * * * * *	Costs	Benefits	AT CALLS	inual 🖔 🤐 🤻 👻	(Ar	inual <u>te . Salin</u> i				
3	Program 💆	_Year	TRC	(\$000) P	_u(\$000) <u>}</u> ^	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime 🚉
ſ		2013		2,476	86	20,418	See footnote 1	65,470	ре footпote 2	205		1,434	
ı	Low Income	2014		2,143	135	23,986		110,857		391		2,251	
ı	Program	2015		2,574	230	43,874		185,730		596		3,684	
ı		Total	0.2	6,600	1,284	225,014		1,059,133			5,298		26,002
ſ	Tota!		0.2	6,600	1,284	225,014		1,059,133	[3] JES		5,298		26,002

- 1: Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component; the force, by total avoided capacity costs for Generation, Transmission, and Distribution are displayed here.
- 2: The on and off peak energy costs are combined in a sum of avoided energy costs, these costs are lien NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.
- 3. This table does not reflect the commitments made through the Joint Settlement because further work with interested stakeholders is required before projections can be completed. Upon completion, the plans will be further redlined consistent with Commission requirements for changes to the plans.

#### Table 7B: TRC Benefits Table

u riogiani real is sune i	- Way 51											
	B 8 8 8	Section 4	الرام المالية		3		West Penn		14 3	4.01		
Residential Low-												
Pincome Portfolio (大学) 大学 (大学 大学 大学 ) TRC Benefits By Program (Per Year (\$000)) (大学 大学 大学 ) 大学 (大学 )												
		2 × 35	Program	Program:	∵ .{Ca	pacity 🚋 😤	En 💛 En	ergy	Load Redu	ctions in kW	MWh ≥ S	Saved
	Program	g 31-14	Costs	1Benefits		inual 🤼 🤻		nual 🔭 💮				
Program 🚉	Year	TRC	_ (\$000) _	(\$000)	Benefits	È Gen/T&D⊵	Benefits 1	∫On/Off Peak	Annual	Lifetime	Annual	Lifetime 🗟
	2013		2,533	114	37,460	* See footnote 1	76,598	See footnote 2	376		1,642	
Low Income	2014		2,196	177	44,881		132,499		732		2,636	
Program	2015		2,634	302	81,546		220,215		1,108		4,278	
	Total	0.2	6,757	1,675	415,974		1,259,353			9,764		30,933
Total		0.2	6,757	1,675	415,974		1,259,353			9,764		30,933

<sup>1:</sup> Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs can not be identified by component; therefore, the total avoided capacity costs for Generation, Transmission, and Distribution are displayed here.

<sup>2:</sup> The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component; therefore, the total avoided energy costs for on and off peak energy costs are displayed here.

<sup>3:</sup> Includes Human Services and Home Performance Sub-Programs

West Penn Power - Exhibit B - TRC Impact Assessment

Program	Approved TRC Costs (\$000)	Approved TRC Benefits (\$000)	Approved:	Proposed; TRC Cost ((000)	Proposed TRC/Benefit a (000)	Proposed) TRC
Energy Efficient Products Program	8,399	. 8,432	1.0	8,363	8,432	1,0
Home Performance Program	12,883	13,495	1,0	12,816	13,367	1.0
Low Income Program	6,600	1,284	0.2	6,757	1,675	0,2
Plan Total	79,002,293	115,746,433	1.5	79,055,734	116,009,844	1.5

Note:
1. TRC Costs, Benefits and Ratio per Appendix E, Table 7A & B, and Appendix E, Table 1

#### PENNSYLVANIA PUBLIC UTILITY COMMISSION

West Penn Power Company's Request for Expedited Approval of Proposed Minor Act 129 EE&C Plan Changes Pursuant to the June 10, 2011 Final Order in Docket No. M-2008-2069887

Docket No. M-2012-2334398

:

#### **CERTIFICATE OF SERVICE**

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the individuals listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

November 22, 2013

Cathy J. Koligh, Esquire

Service via overnight, as follows:

Rosemary Chiavetta, Secretary Pennsylvania Public Utility Commission Commonwealth Keystone Building 400 North Street, 2<sup>nd</sup> Floor Harrisburg, PA 17120 NOV 2 2 2013

PA PUBLIC UTILITY COMMISSION SECRETARY'S BUREAU

#### Service via First Class and Electronic Mail, as follows

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