

The Pennsylvania Energy Development Authority

Annual Report
July 1, 2015 - June 30, 2016



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Patrick McDonnell, Acting Secretary of Environmental Protection & Chairman of the Board

Pennsylvania Energy Development Authority Board

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Staff

Introduction/Executive Summary

This annual report covers the operations of the Pennsylvania Energy Development Authority (PEDA) for the period July 1, 2015, to June 30, 2016. Significant activities include project management of the approved financial assistance awards made in October 2014. PEDA and Pennsylvania Department of Environmental Protection (DEP) staff members continue to monitor progress and implementation of the 2014 awarded grant projects. A listing of all current open projects is provided in Appendix A.

Background

PEDA was created by the Energy Development Authority and Emergency Powers Act of 1982. PEDA is a public corporation governed by a 19-member Board of Directors and managed by an executive director and staff. PEDA became active when its first Board of Directors was confirmed on June 26, 1984, and it remained active until 1995. After a period of dormancy, on April 8, 2004, an Executive Order 2004-5 was issued revitalizing PEDA and transferring it to DEP, which now provides staffing for the authority.

PEDA's mission is to promote the development and use of Pennsylvania's clean, indigenous energy resources and to stimulate economic development and job creation in Pennsylvania's growing energy sector in an environmentally beneficial manner.

Accomplishments in the 2015-16 Fiscal Year

Background: 184 applications for clean and alternative energy projects were submitted to PEDA on August 15, 2014, to be considered for financial assistance awards. The proposed projects totaled approximately \$81 million in requested funding. PEDA, utilizing available funds from the Energy Development Fund, Growing Greener II, Duquesne Light Settlement Fund and the Growing Greener Community Environmental Initiative fund, selected 28 projects totaling nearly \$12.5 million in financial assistance. PEDA utilized a competitive scoring system to rank the proposed projects. PEDA's Technical Review subcommittee including: Gibson C. Armstrong, Representative R. Lee James, Bernie Lynch, Tanya McCloskey, and Steve Drizos representing Secretary C. Alan Walker, selected the final list of recommended projects for presentation to the PEDA board for approval.

Awarded projects:

- 19 Advanced Energy Projects
- 5 Clean Alternative Energy Projects
- 3 Advanced Energy Projects to be deployed in the Duquesne Light service territory,
- 1 Community Environmental Initiative project

Results: 22 PEDA projects continue to be deployed. Seven projects have been completed and are operating. Nine projects are nearly completed and most are operating with only administrative reporting and final payments to be made. Six projects are still underway and are healthy with no current issues. Six projects were mutually determined to be unable to move to completion as proposed. All funds were liquidated and no grant funds were expended.

For the 22 projects, the anticipated energy savings are 13,840,945 KWh/yr. The projected alternative energy generation is estimated to 64,873,111 KWh/yr as well as an additional energy savings of 72,145 Mcf each year. The total savings/generation is expected to be equal to 99,843,883 KWh/yr. This amount of energy savings/generation equals the amount of energy used by 9,600 households for a year¹. In addition the projected carbon dioxide emission savings/reduction is approximately 64,399 tons each year. This reduction equals the greenhouse gas emissions savings from the removal of 13,702 typical passenger vehicles on the road for a year.² As projects are completed, PEDa will receive at least one, follow-up annual report which will detail alternative energy generation and energy savings.

Project Implementation – Projects completed or construction completed.

Advanced Energy Projects: Projects which deploy: solar energy, wind, low-impact hydropower, geothermal, biomass, biologically derived methane gas including landfill gas, fuel cells, coal-mine methane, waste coal, coal liquefaction, coal polygeneration, integrated gasification combined cycle, and demand management measures including recycled energy and energy recovery, energy efficiency and load management.

Aria Health System (Philadelphia County): The project installed a new 1.1 MW combined heat and power system at the Torresdale Campus, the largest hospital in the Aria Health Systems group of three hospitals.

- Anticipated Energy Savings: 8,585,412 kWh through fuel displacement and increased system efficiency.
- Project Status: 95% completed. The project is completed and operating. Receipt of the final report and financial reimbursement is all that remains.

City of Harrisburg (Dauphin County): The project was to replace 6,161 Metal Halide/Mercury Vapor and High Pressure Sodium Roadway Luminaires into energy efficient LED Roadway Luminaires.

- Anticipated Energy Saved: 3,223,136 Kwh/yr.
- Project Status: 90% completed. Notice of substantial completion has been issued.

Constellation New Energy (Montgomery County): The project was to install a locally-manufactured UltraBattery®; a hybrid lead acid battery device containing an ultra-capacitor to be placed in Aqua's Upper Merion Water Treatment Plant and act as a reference project to provide increased grid stabilization and power resiliency at the water treatment plant.

- Anticipated Energy Saved: 8,500 Kwh/yr through frequency regulation and demand management.
- Project Status: 75% completed. Final connections are on-going and commissioning will begin soon. The project is on track for completion. DEP will soon receive final report and reimbursement request.

¹ A conversion factor using the average electric consumption of a typical PA family home of 10,402Kwh/yr was used.
https://www.eia.gov/consumption/residential/reports/2009/state_briefs/pdf/PA.pdf

² A conversion factor of 4.7 metric tons was used for the average CO2 emissions from a typical passenger vehicle.
<https://www.epa.gov/sites/production/files/2016-02/documents/420f14040a.pdf>

Dairy Farmers of America (Tioga County): The project was to replace the mechanical burner linkage at the Middlebury facility with an electronic controlled combustion head and diffuser plate, as well as the addition of a variable frequency drive on the blower motor.

- Anticipated Energy Saved: 26,667 Kwh/yr., and 11,465 Mcf/yr.
- Project Status: 100% completed. Final report and final reimbursement request is submitted.

Elizabethtown College (Lancaster County): The project was to design and install a 2 MW ground-mounted solar photovoltaic (PV) array on campus owned property.

- Anticipated Energy Generated: 3,567,000 Kwh/yr.
- Project Status: 90% completed. Project is built and operating, final site work, seeding etc. will be completed by May 2017.

Green Building Alliance (Allegheny County): The project was to install energy efficiency upgrades focusing on replacing light fixtures with LED and dynamic lighting controls at six free standing parking garages in Pittsburgh, PA.

- Anticipated Energy Saved: 960,150 Kwh/yr.
- Project Status: 90% completed. All work has been completed and the final administrative reporting and reimbursement is all that remains.

Shamokin Area School District (Northumberland County): The project was to install a state-of-the art building automation controls, upgrading the HVAC system at the High School, including a new chiller and rooftop units, and installing new campus wide exterior lighting.

- Anticipated Energy Saved: 826,343 Kwh/yr., and 3,171 Mcf/yr.
- Project Status: 100% completed. Final report and final reimbursement request is submitted.

West Branch Area School District (Clearfield County): The project was to install a biomass boiler system to provide up to 80% of its heating needs replacing heating oil.

- Anticipated Energy Saved: 8,069 Mcf/yr. through fuel displacement and increased system efficiency.
- Project Status: 100% completed. Final report and final reimbursement request is submitted.

Clean Alternative Energy Projects: Projects which support manufacture of component parts of the alternative energy sector and projects which support research to advance or commercialize alternative energy projects. All projects are completed or substantially completed.

Alcoa Inc. (Westmoreland County): The project was to build and test an innovative system to recycle deactivated electrolyte from the Alcoa Al-air battery system.

- Increase of commercial viability of the use of the Al-Air battery in extending the range of electric vehicles, to reduce gasoline/diesel use.
- Project Status: 90% completed. Project is completed and all that remains is the administrative close out of the project.

Interstate Building Materials Inc. (Luzerne County): The project was involved with the acquisition of equipment, as well as job training to increase its current production capacity to support the new production lines which will produce window and door products with insulation values more than two times as efficient as current commercial products.

- Reduction of home heating oil, electricity, and natural gas consumption upon full deployment of highly insulated building products.
- Project Status: 90% completed. Project is completed and all that remains is the administrative close out of the project.

J.V. Manufacturing Company (Allegheny County): The project was involved with the construction of dies, which are used to create the component parts in the manufacturing process for fuel cells. The project output will increase production of fuel cells by over 30%.

- Manufacturing of parts to contribute to a 20MW increase in fuel cell deployments.
- Project Status: 100% completed. Final report and final reimbursement request was submitted.

Summit Steel & Manufacturing, Inc. (Berks County): The project was development of a solar photovoltaic panel mounting system called Solstice High Profile, which will reduce overall installation time and costs which are not currently possible with conventional mounting systems.

- PV systems utilizing Pennsylvania manufactured parts in MW of PV solar deployed.
- Project Status: 90% completed. Prototype testing for the rooftop design was produced and testing has been initiated. Project is completed and all that remains is the administrative close out of the project.

Duquesne Light Settlement Funding: Duquesne Light funding was provided to PEDDA through a settlement, approved by Order of Dec. 1, 2007 in Pennsylvania Public Utility Commission, et al.v. Duquesne Light Company. The remaining balance of \$259,694.91 in the PEDDA Duquesne Light fund was reserved for projects to be deployed in the Duquesne Light service territory funding renewable energy projects and/or energy efficiency and education projects benefitting the customers of Duquesne Light service territory.

AIM Ventures, LLC (Allegheny County): The project was to install a 30.21kW ballasted PV system on a privately owned building in the Larimer neighborhood of Pittsburgh.

- Anticipated Energy Generated: 34,982 Kwh/yr.
- Project Status: 100% completed. Final report and final reimbursement request was submitted.

Allegheny County (Allegheny County): The project was to insulate of high volume steam traps and monitor performance of the steam system in four County buildings using a Carnegie-Mellon University developed technology, Smart Jackets.

- Anticipated Energy Saved: 2,950 Mcf/yr.
- Project Status: 100% completed. Final report and final reimbursement request was submitted.

Borough of Monaca (Beaver County): The project was to install a 49.5kW ground mounted solar array.

- Anticipated Energy Generated: 59,170 Kwh/yr.

- Project Status: 90% completed. The project is completed. The project is anticipated to be commissioned in the fall remains and a final report and reimbursement request is due to be submitted.

Community Environmental Initiative (CEI) Project (Northumberland County): CEI Program allows Counties to designate a project to utilize Growing Greener II funds provided to them under a grant program which they choose to allocate the funds. Northumberland County Board of Commissioners requested their project as a part of the PEDDA 2014 Program solicitation.

Northumberland County (Northumberland County): The project installed a Boiler upgrade for the Careerlink Building home to several state and local agencies, which directly service low to moderate income persons in Shamokin resulting in 30% greater fuel use efficiency.

- Anticipated Energy Savings 762 Mcf/yr.
- Project Status: 100% completed. Final report and final reimbursement request is submitted.

Project Implementation – Projects not substantially completed but underway.

Knouse Foods Co Op (Adams County): The project was provided grant funding to install a 1,200 kW CHP system at its Peach Glen facility to utilize the biologically derived methane biogas to generate electricity, steam and hot water to support Knouse Foods' on-going operations.

- Anticipated Energy Generated: 9,498,016 Kwh/yr, and 23,086 Mcf/yr.
- Project Status: This project has completed the engineering and design stage. Discussions with the local Electric Distribution Company regarding net metering and interconnection has delayed the construction schedule. It is anticipated that the biogas CHP system will be constructed in 2017.

PA Solar Park II, LLC (Carbon County): The project was provided funding to design and install a 10 MW AC solar PV facility that will be located in Nesquehoning Borough in Carbon County, Pennsylvania.

- Anticipated Energy Generated: 14,000,000 Kwh/yr.
- Project Status: This project has completed the engineering and design stage, due to local permitting delays, PA Solar Park is re-applying for interconnection, and when approved will construct this project in 2017.

Estes Express Line (Mercer County): The project was to design and build a 687.9kW solar PV system in West Middlesex, Pennsylvania on the roof of Estes' terminal.

- Anticipated Energy Generated: 787,826 Kwh/yr.
- Project Status: 50% completed, Estes signed a contract with the engineering and procurement contract with the solar design firm. Modules and inverters were purchased in August 2016, and project size has increased by 15kW. Project is currently being constructed and the projected completion date is no later than spring of 2017.

Hydro Green Energy (Allegheny County): The project contributes to the development of a 5.2 MW low environmental impact hydropower facility at the U.S. Army Corps of Engineers Braddock Locks and Dam on the Monongahela River.

- Anticipated Energy Generated: 32,263,000 Kwh/yr.

- Project Status: Project Status: 20% completed. Geotechnical drilling and analysis has begun, the final step in the USACE 408 permit approval. Once complete, final design will begin. A Power Purchase agreement is in the final stages of negotiation and approval. While the project is behind the original period of performance schedule, the project is moving forward and a new anticipated completion date will be identified by March 2017.

Robert Packer Hospital (Bradford County): The project involved a broad range of demand side efficiency improvements including: chiller plant retro-commissioning, replacement of inefficient energy recovery ventilation near end-of-life, and conversion of constant volume to variable volume air handlers.

- Anticipated Energy Generated: 4,663,117 Kwh/yr., 13,361 Mcf/yr.
- Project Status: 80% completed. Project is slightly behind the schedule due to contractor delays. The projected completion date is early spring 2017.

Westtown School (Chester County): The project was to upgrade Westtown School's central steam plant to a high efficiency hot water condensing boiler system and convert ten campus buildings (317,000 sq. ft.) from natural gas to electric heating. Additionally, lighting upgrades in Westtown's Lower and Middle Schools, and the Athletic Center will be undertaken.

- Anticipated Energy Saved: 210,737 Kwh/yr., and 9,341 Mcf/yr.
- Project Status: 70% completed. Boiler system is completed and approximately half of the lighting upgrades have been completed. Project is projected for completion by December 2016.

Financial Report

As of June 30, 2016, the Energy Development Fund contained a total of \$4,057,881.15 in funds. The funds include designated administrative funds, revenue from interest on securities, claw back funds from 2014 grant projects who have returned grant funds and the repayment of loan principal and interest from one remaining loan to Community Energy Inc. The loan to Community Energy Inc. completed repayment in February 2016. It is expected, however, that the balance of funds in Energy Development fund may be committed in the coming fiscal year through the action of the PEDAs board. Financial information for the Energy Development Fund is described in the Fund Balance sheet, attached as Appendix B. The Unreserved Fund Balance Sheet is attached as Appendix C.

The Duquesne Light Settlement funds were fully committed through the financial assistance awards made on October 22, 2014. The remaining balance of \$0 reflects that the remaining funds of \$75,000 have been contractually committed to Monaca Boro. The Monaca Boro project incurred costs so as to expend the funds by June 30, 2016. Monaca Boro, after commissioning the solar array will be requesting reimbursement from PEDAs in the fall of 2016 and this will reduce the fund balance to \$0. The Duquesne Light Settlement funds are described in Appendix D.

Growing Greener II had provided PEDAs with up to \$10 million annually for 5 years ending in FY 2009-10. Those funds are a part of the commonwealth's general obligation bond issuances. As such, the funds are not deposited directly into the Energy Development Fund, but are maintained by the Governor's Office of Budget as a part of the larger fund containing other general obligation bond proceeds. PEDAs grantees utilizing Growing Greener II monies are paid from this larger fund. A

statement of commitments and expenditures for PEDAs allocation of Growing Greener II funding is attached as Appendix E. An uncommitted balance exists in this fund of \$242,232.89 due to prior committed projects returning funds. It is expected, however, that the balance of funds in the Growing Greener II bond fund may be committed in the coming fiscal year through the action of the PEDA board. The Growing Greener Funds are described in Appendix E.

Activities Going Forward

The Board plans to meet in 2017 to elect officers and plan the business of the PEDA board in 2017. PEDA will continue to manage existing grants as well as identify new financial and technical assistance opportunities for projects in accordance with the PEDA Energy Development Plan.

Conclusion

PEDA plans to work with Governor Wolf, the legislature and the private sector to help finance innovative clean energy projects and companies and to promote clean energy in Pennsylvania. In the coming year, PEDAs board and staff look forward to potential new financial opportunities so as to provide assistance for advanced energy projects and continue the work to foster growth in this important area of Pennsylvania's economy.

Appendix A

GRANT PROGRAM	PROJECT NAME	FUNDING RECIPIENT or VENDOR	COUNTY	PROJECT STATUS	TOTAL PROJECT COST	TOTAL PEDA FUNDING	MATCHING FUNDS	TOTAL AMT INVOICED	EXP COMPL DATE
PEDA 2014	Career Center Boiler Upgrade	Northumberland County Board of Commissioners	Northumberland	Complete	\$175,887	\$79,944	\$95,944	\$79,944	08/31/2015
PEDA 2014	Gaining Ground by Going Green	Shamokin Area School District	Northumberland	Complete	\$4,299,993	\$500,000	\$3,799,993	\$500,000	11/30/2015
PEDA 2014	Modeling Biomass Excellence: Public Education Advancing the Land of Lumber	West Branch Area School District	Clearfield	Complete	\$1,261,675	\$500,000	\$761,675	\$500,000	10/31/2016
PEDA 2014	NextGen FuelCell Component Manufacturing	J.V. Manufacturing Company	Allegheny	Complete	\$1,486,435	\$500,000	\$986,435	\$500,000	09/30/2016
PEDA 2014	Pittsburgh Non-Profit Power Purchase	AIM Ventures, LLC	Allegheny	Complete	\$98,630	\$28,800	\$69,830	\$28,800	05/15/2015
PEDA 2014	Steam System Insulation & Monitoring Project	Allegheny County	Allegheny	Complete	\$400,805	\$174,665	\$226,140	\$174,665	12/31/2017
PEDA 2014	Interstate Energy Window Manufacturing Expansion	Interstate Building Materials, Inc.	Luzerne	Near Complete	\$2,170,000	\$470,000	\$1,700,000	\$436,490	10/21/2016
PEDA 2014	Pittsburgh Garage Energy Efficiency Initiative	Green Building Alliance	Allegheny	Near Complete	\$840,565	\$469,893	\$370,672	\$176,789	10/31/2016
PEDA 2014	Upper Merion Ultra Battery Project	Constellation New Energy	Montgomery	Near Complete	\$1,598,840	\$500,000	\$1,098,840	\$450,000	10/31/2016
PEDA 2014	New Burner and Economizer for Johnston Boiler	Dairy Farmers of America	Tioga	Complete	\$151,952	\$75,976	\$75,976	\$72,918	10/21/2016

GRANT PROGRAM	PROJECT NAME	FUNDING RECIPIENT or VENDOR	COUNTY	PROJECT STATUS	TOTAL PROJECT COST	TOTAL PEDA FUNDING	MATCHING FUNDS	TOTAL AMT INVOICED	EXP COMPL DATE
PEDA 2014	Advanced Solar PV Panel Mounting Systems	Summit Steel & Manufacturing, Inc.	Berks	Near Complete	\$1,368,156	\$457,366	\$910,790	\$304,000	04/21/2017
PEDA 2014	Al-Air Battery Electrolyte Recycling	Alcoa, Inc.	Westmoreland	Near Complete	\$1,089,830	\$500,000	\$589,830	\$467,682	10/21/2016
PEDA 2014	Aria Health System - CHP	Aria Health System	Philadelphia	Near Complete	\$3,864,506	\$500,000	\$3,364,506	\$450,000	02/27/2017
PEDA 2014	Braddock Locks and Dam Low Environmental Impact Hydropower Project	Hydro Green Energy, LLC	Allegheny	Healthy	\$8,428,913	\$499,913	\$7,929,000	\$0	03/31/2017
PEDA 2014	Elizabethtown College and Clean Energy	Community Energy Solar, LLC dba Elizabethtown Solar LLC	Lancaster	Near Complete	\$4,782,256	\$500,000	\$4,282,256	\$450,000	05/31/2017
PEDA 2014	Estes Express Lines - West Middlesex	Estes Express Lines	Mercer	Healthy	\$1,410,195	\$400,000	\$1,010,195	\$0	04/30/2017
PEDA 2014	Knouse Foods Peach Glen Biogas CHP System	Knouse Foods Co-Op, Inc.	Adams	Healthy	\$2,028,900	\$1,000,000	\$1,028,900	\$0	10/21/2017
PEDA 2014	Monaca Water Reservoir Alternative Energy Project	Borough of Monaca	Beaver	Near Complete	\$150,000	\$75,000	\$75,000	\$0	10/21/2016
PEDA 2014	PA Solar Park II, LLC - PEDA 2014	PA Solar Park II, LLC	Carbon	Healthy	\$9,000,000	\$750,000	\$8,250,000	\$0	09/15/2017
PEDA 2014	Robert Packer Hospital Energy Conservation Project	Robert Packer Hospital	Bradford	Healthy	\$2,181,800	\$500,000	\$1,681,800	\$350,000	12/30/2016
PEDA 2014	Street Light LED Conversion Project	City of Harrisburg	Dauphin	Near Complete	\$2,837,653	\$500,000	\$2,337,653	\$450,000	11/30/2016
PEDA 2014	Westtown School Comprehensive Conservation Plan	Westtown School	Chester	Healthy	\$1,057,790	\$500,000	\$557,790	\$0	12/31/2016

GRANT PROGRAM	PROJECT NAME	FUNDING RECIPIENT or VENDOR	COUNTY	PROJECT STATUS	TOTAL PROJECT COST	TOTAL PEDA FUNDING	MATCHING FUNDS	TOTAL AMT INVOICED	EXP COMPL DATE
PEDA 2014	Anaerobic Digester for Nicholas Meats	Nicholas Meat, LLC	Clinton	Terminated	\$1,797,649	\$500,000	\$1,297,649	\$0	N/A
PEDA 2014	Blue Mountain CHP and Natural Gas Pipeline Project	Blue Mountain Resort Management LLC	Carbon	Terminated	\$1,464,333	\$500,000	\$964,333	\$0	N/A
PEDA 2014	Marywood Solar Project	Community Energy Solar LLC dba Marywood Solar LLC	Lackawanna	Terminated	\$3,675,000	\$500,000	\$3,175,000	\$0	N/A
PEDA 2014	HACC	Juniata Solar Partners	Dauphin	Withdrawn	\$9,089,657	\$484,559	\$8,605,098	\$0	N/A
PEDA 2014	Solar Power on a Sustainable Tree Farm	Advanced Technologies & Land Services	Armstrong	Withdrawn	\$4,068,000	\$500,000	\$3,568,000	\$0	N/A
PEDA 2014	Solar-diesel Hybrid Light Tower	Solar Secured Solutions LLC.	York	Withdrawn	\$4,313,320	\$500,000	\$3,813,320	\$0	N/A

Appendix B

ENERGY DEVELOPMENT FUND BALANCE SHEET June 30, 2016

ASSETS

Cash with Treasurer	\$ (1.50)
Cash in Transit	\$ -
Temporary Investments	\$(1,270,874.02)
Long-term Investments	\$ 5,328,756.67
Loans Receivable	-

Total Assets	<u>\$ 4,057,881.15</u>
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LIABILITIES AND FUND BALANCE

LIABILITIES

	Payroll Payable	
Invoices/Accounts Payable		\$ 162,912.66
Due to Political Subdivisions		
Total Liabilities		<u>162,912.66</u>

FUND BALANCE

Reserved for Loans Receivable	\$ -
Reserved for Encumbrances - Restricted Revenue	75,000.00
Reserved for Encumbrances	358,360.49
Reserved Non-Lapsable Balance	1,714,093.03
Reserved for General Fund Lapse	-
Reserved - Restricted Revenue	
Unreserved/Undesignated	<u>\$1,747,514.97</u>

Total Fund Balance	<u>3,894,968.49</u>
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Total Liabilities and Fund Balance	\$ 4,057,881.15
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Appendix C

ENERGY DEVELOPMENT FUND UNRESERVED FUND BALANCE STATEMENT June 30, 2016

Unreserved Fund Balance, July 1, 2015	\$3,289,729.57
Reserved for Encumbrances - Restricted Revenue, July 1, 2015	509,694.91
Reserved for Restricted Revenue, July 1, 2015	0.00
Revenue:	
PEDA Application Fees	0.00
Loan Repayment	68,043.11
Interest Payments	602.53
Interest on Securities	152,450.45
Total Revenue	221,096.09
Pending Prior Year Lapses	670,689.31
Total Funds Available	\$4,691,209.88
Deductions:	
Expenditures - Current	361,546.48
Reserved for Non-Lapsable Balance	1,714,093.03
Expenditures - Restricted Revenue	434,694.91
Commitments - Current	358,360.49
Commitments - Restricted Revenue	75,000.00
Reserved for Restricted Revenue	0.00
Total Deductions	2,943,694.91
Unreserved Fund Balance, June 30, 2016	\$1,747,514.97

Appendix D

ENERGY DEVELOPMENT FUND DUQUESNE LIGHT SETTLEMENT June 30, 2016

BALANCE JULY 1, 2007	\$ -
FY 2007-08 REVENUE	\$ 3,000,000.00
FY 2008-09 REVENUE	\$ -
FY 2009-10 REVENUE	\$ 1,500,000.00
FY 2010-11 REVENUE	\$ 1,500,000.00
FY 2011-12 REVENUE	\$ -
FY 2012-13 REVENUE	\$ -
FY 2013-14 REVENUE	\$ -
FY 2014-15 REVENUE	\$ -
FY 2015-16 REVENUE	\$ -
TOTAL REVENUE	\$ 6,000,000.00
COMMITMENTS	\$ 75,000.00
EXPENDITURES	
FY 2009-10	\$ 729,166.16
FY 2010-11	\$ 1,101,352.84
FY 2011-12	\$ 1,956,460.32
FY 2012-13	\$ 1,703,325.77
FY 2013-14	\$ -
FY 2014-15	\$ -
FY 2015-16	\$ 434,694.91
TOTAL EXPENDITURES	\$ 5,925,000.00
TOTAL COMMITMENTS AND EXPENDITURES	\$ 6,000,000.00
BALANCE JUNE 30, 2016	\$ -

Appendix E

GROWING GREENER II BOND FUND EXECUTIVE AUTHORIZATION STATEMENT June 30, 2016

BALANCE JULY 1, 2005	\$ -
FY 2005-06 EXECUTIVE AUTHORIZATION	\$ 10,000,000.00
FY 2006-07 EXECUTIVE AUTHORIZATION	\$ 10,000,000.00
FY 2007-08 EXECUTIVE AUTHORIZATION	\$ 10,000,000.00
FY 2008-09 EXECUTIVE AUTHORIZATION	\$ 10,000,000.00
FY 2009-10 EXECUTIVE AUTHORIZATION	\$ 10,000,000.00
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TOTAL EXECUTIVE AUTHORIZATIONS	\$ 50,000,000.00
COMMITMENTS	\$ 4,557,041.45
EXPENDITURES	
FY 2005-06	\$ 323,562.07
FY 2006-07	\$ 2,925,987.35
FY 2007-08	\$ 3,596,835.59
FY 2008-09	\$ 4,967,237.88
FY 2009-10	\$ 7,389,308.92
FY 2010-11	\$ 10,734,584.94
FY 2011-12	\$ 6,887,968.37
FY 2012-13	\$ 3,790,487.65
FY 2013-14	\$ 685,906.41
FY 2014-15	\$ 99,973.89
FY 2015-16	\$ 3,798,872.59
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TOTAL EXPENDITURES	\$ 45,200,725.66
TOTAL COMMITMENTS AND EXPENDITURES	\$ 49,757,767.11
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BALANCE JUNE 30, 2016	\$ 242,232.89
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