

# The Pennsylvania Energy Development Authority

Annual Report  
July 1, 2016 - June 30, 2017



Tom Wolf, Governor  
Patrick W. McDonnell, Secretary of Environmental Protection & Chairman of the Board

0120-RE-DEP4892 11/2017

# Pennsylvania Energy Development Authority Board

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**Vacant**

Executive Director

**David A. Althoff, Jr. - Staff**

**Libby Dodson - Staff**

## **Introduction/Executive Summary**

This annual report covers the operations of the Pennsylvania Energy Development Authority (PEDA) for the period July 1, 2016, to June 30, 2017. Significant activities include project management of the approved financial assistance awards made in October 2014. PEDA and 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 the Department of Environmental Protection (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 2016-17 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. Sixteen projects have been completed and are operating. Three projects have been constructed but are awaiting administrative close out. Three projects still under construction. Six projects were mutually determined to be unable to move to completion as proposed. Three projects were withdrawn prior to grant contracting and three were terminated. All funds awarded to the six projects were liquidated and no grant funds were expended on those projects.

For the 22 projects, the anticipated energy savings are 13,840,945 KWh/yr, projected generation is estimated to 64,873,111 KWh/yr of alternative energy and an additional savings of 72,145 Mcf each year. Total savings/generation equals to 99,843,883 KWh/yr. The conversion of energy savings/generation to average household consumption in Pennsylvania equals to 9,600 households for a year. Projected Carbon dioxide emission savings from the projects is approximately 64,399 tons each year which equals to greenhouse gas emissions savings from 13,702 typical passenger vehicles on road for a year.

As a condition of the PEDA grant contract, grantees are required to submit at least one, follow-up annual report that details alternative energy generation and energy savings. Three projects submitted their follow-up annual report. West Branch Area School District, Dairy Farmers of America Inc. & Northumberland County Commissioners.

Actual energy savings for all three projects are

- 1,303,097 Kwh/yr and
- 21,998.64 Mcf/yr.

To date, Total actual energy savings equals 7,773,285 KWh/yr.

#### **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: Healthy project built and commissioned, awaiting administrative closeout.

**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: Completed, 2/9/2017

**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: Completed, 4/5/2017

**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: Completed, 12/30/2016

**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: 95% completed. Project is built and operating, final site work, seeding etc. to be completed.

**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: Completed, 5/10/2017

**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: Completed, 1/19/2017

**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: Completed, 7/28/2016

**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: Completed, 5/9/2016

**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: Completed, 8/14/2017

**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: Completed, 8/25/2017

**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: Completed, 4/7/2017

**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: Completed, 12/28/2016

**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: Completed, 10/1/2015

**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 were 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 PEDa 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 PEDa 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: Completed, 12/3/2015

**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: Completed, 7/6/2016

**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: Completed, 2/27/2017

**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 PEDa 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: Completed, 1/14/2016

### **Project Implementation – Projects not 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 prior to the end of 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. PA Solar Park has requested an extension as they have not yet begun construction.

**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: 30% completed. Geotechnical drilling and analysis is complete. The initial contract with the project engineer is complete and final design will begin shortly. The Power Purchase Agreement is in the final stages and will be completed soon. While the project is behind the original period of performance schedule, the project is moving forward and a new anticipated completion date was identified as June 30, 2019 in the project time extension approved in March 2017.



## **Financial Report**

As of June 30, 2017, the Energy Development Fund contained a total of \$3,974,362.12 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. It is expected that the balance of funds in Energy Development fund may be committed in the coming fiscal year through the action of the PEDA 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 and expended through the financial assistance awards made on October 22, 2014. The Duquesne Light Settlement funds are described in Appendix D.

Growing Greener II had provided PEDA 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. PEDA grantees utilizing Growing Greener II monies are paid from this larger fund. A statement of commitments and expenditures for PEDA's allocation of Growing Greener II funding is attached as Appendix E. An uncommitted balance exists in this fund of \$270,546.10 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, PEDA's 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	COUNTY	PROJ STATUS	TOTAL PROJECT COST	TOTAL ARRA FUNDING	MATCHING FUNDS	TOTAL AMT INVOICED	EXPECTED COMPL DATE
PEDA 2014	Al-Air Battery Electrolyte Recycling	Alcoa, Inc.	Westmoreland	Complete	\$1,089,830	\$500,000	\$589,830	\$478,032	12/31/2015
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	Estes Express Lines - West Middlesex	Estes Express Lines	Mercer	Complete	\$1,410,195	\$400,000	\$1,010,195	\$400,000	04/30/2017
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	Interstate Energy Window Manufacturing Expansion	Interstate Building Materials, Inc.	Luzerne	Complete	\$2,170,000	\$470,000	\$1,700,000	\$469,950	10/21/2016
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	Monaca Water Reservoir Alternative Energy Project	Borough of Monaca	Beaver	Complete	\$150,000	\$75,000	\$75,000	\$75,000	12/01/2015
PEDA 2014	New Burner and Economizer for Johnston Boiler	Dairy Farmers of America	Tioga	Complete	\$151,952	\$75,976	\$75,976	\$72,918	10/31/2014
PEDA 2014	NextGen FuelCell Component Manufacturing	J.V. Manufacturing Company	Allegheny	Complete	\$1,486,435	\$500,000	\$986,435	\$500,000	09/30/2016

## Appendix A

GRANT PROGRAM	PROJECT NAME	FUNDING RECIPIENT	COUNTY	PROJ STATUS	TOTAL PROJECT COST	TOTAL ARRA FUNDING	MATCHING FUNDS	TOTAL AMT INVOICED	EXPECTED COMPL DATE
PEDA 2014	Pittsburgh Garage Energy Efficiency Initiative	Green Building Alliance	Allegheny	Complete	\$840,565	\$469,893	\$370,672	\$463,635	10/31/2016
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	Street Light LED Conversion Project	City of Harrisburg	Dauphin	Complete	\$2,837,653	\$500,000	\$2,337,653	\$500,000	12/31/2015
PEDA 2014	Upper Merion Ultra Battery Project	Constellation New Energy	Montgomery	Complete	\$1,598,840	\$500,000	\$1,098,840	\$500,000	12/15/2015
PEDA 2014	Robert Packer Hospital Energy Conservation Project	Robert Packer Hospital	Bradford	Complete	\$2,181,800	\$500,000	\$1,681,800	\$500,000	04/28/2017
PEDA 2014	Westtown School Comprehensive Conservation Plan	Westtown School	Chester	Complete	\$1,057,790	\$500,000	\$557,790	\$500,000	03/31/2017

## Appendix A

GRANT PROGRAM	PROJECT NAME	FUNDING RECIPIENT	COUNTY	PROJ STATUS	TOTAL PROJECT COST	TOTAL ARRA FUNDING	MATCHING FUNDS	TOTAL AMT INVOICED	EXPECTED COMPL DATE
PEDA 2014	Aria Health System - CHP	Aria Health System	Philadelphia	Healthy	\$3,864,506	\$500,000	\$3,364,506	\$450,000	02/27/2017
PEDA 2014	Elezebethtown College and Clean Energy:	Community Energy Solar, LLC dba Elizabethtown Solar LLC	Lancaster	Healthy	\$4,782,256	\$500,000	\$4,282,256	\$450,000	10/31/2017
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	06/30/2019
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	\$561,439	10/21/2017
PEDA 2014	Advanced Solar PV Panel Mounting Systems	Summit Steel & Manufacturing, Inc.	Berks	Healthy	\$1,368,156	\$457,366	\$910,790	\$406,551	10/31/2017
PEDA 2014	Anaerobic Digester for Nicholas Meats	Nicholas Meat, LLC	Clinton	Terminated	\$1,797,649	\$500,000	\$1,297,649	\$0	03/15/2016
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	06/30/2016
PEDA 2014	Marywood Solar Project	Community Energy Solar LLC dba Marywood Solar LLC	Lackawanna	Terminated	\$3,675,000	\$500,000	\$3,175,000	\$0	11/01/2015
PEDA 2014	PA Solar Park II - PEDA 2014	PA Solar Park II, LLC	Carbon	Trouble	\$9,000,000	\$750,000	\$8,250,000	\$0	09/15/2017
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, 2017

ASSETS	
Cash in Transit	-\$3,259.42
Temporary Investments	-\$1,351,135.13
Long-term Investments	\$5,328,756.67
<b>TOTAL ASSETS</b>	<b>\$3,974,362.12</b>
LIABILITIES AND FUND BALANCE	
LIABILITIES	
Invoices/Accounts Payable	\$1,750.31
<b>TOTAL LIABILITIES</b>	<b>\$1,750.31</b>
FUND BALANCE	
Reserved for Encumbrances	\$50,815.00
Reserved Non-Lapsable Balance	\$220,977.43
Unreserved/Undesignated	\$3,700,819.38
<b>TOTAL FUND BALANCE</b>	<b>\$3,972,611.81</b>
<b>TOTAL LIABILITIES AND FUND BALANCE</b>	<b>\$3,974,362.12</b>

## Appendix C

### ENERGY DEVELOPMENT FUND UNRESERVED FUND BALANCE STATEMENT June 30, 2017

UNRESERVED FUND BALANCE, July 1, 2016	\$1,747,514.97
Reserved for Encumbrances - Restricted Revenue, July 1, 2016	\$75,000.00
Reserved for Restricted Revenue, July 1, 2016	\$0.00
Reserve for Transfer to General Fund, July 1, 2012	\$0.00
REVENUE	
PEDA Application Fees	\$0.00
Transfer from AFIG	\$0.00
Loan Repayment	\$0.00
Interest Payments	\$0.00
Late Fees	\$0.00
Miscellaneous Revenue	\$0.00
Interest on Securities	\$361,472.49
Duquesne Light Settlement	\$0.00
<b>TOTAL REVENUE</b>	<b>\$361,472.49</b>
Pending Prior Year Lapses	\$2,020,831.92
<b>TOTAL FUNDS AVAILABLE</b>	<b>\$4,204,819.38</b>
DEDUCTIONS:	
Expenditures - Current	\$157,207.57
Reserved for Non-Lapsable Balance	\$220,977.43
Expenditures - Restricted Revenue	\$75,000.00
Commitments - Current	\$50,815.00
Commitments - Restricted Revenue	\$0.00
Reserved for Restricted Revenue	\$0.00
General Fund Lapse	\$0.00
Reserved for Loans Receivables	\$0.00
<b>TOTAL DEDUCTIONS</b>	<b>\$504,000.00</b>
<b>UNRESERVED FUND BALANCE, JUNE 30, 2017</b>	<b>\$3,700,819.38</b>

## Appendix D

### ENERGY DEVELOPMENT FUND DUQUESNE LIGHT SETTLEMENT June 30, 2017

BALANCE JULY 1, 2007	\$ -
FY 2007-08 Revenue	\$ 3,000,000.00
FY 2008-09 Revenue	0.00
FY 2009-10 Revenue	1,500,000.00
FY 2010-11 Revenue	1,500,000.00
FY 2011-12 Revenue	0.00
FY 2012-13 Revenue	0.00
FY 2013-14 Revenue	0.00
FY 2014-15 Revenue	0.00
FY 2015-16 Revenue	0.00
FY 2016-17 Revenue	0.00
<b>TOTAL REVENUE</b>	<b>\$ 6,000,000.00</b>
COMMITMENTS	\$ -
EXPENDITURES	
FY 2009-10 Expenditures	\$ 729,166.16
FY 2010-11 Expenditures	1,101,352.84
FY 2011-12 Expenditures	1,956,460.32
FY 2012-13 Expenditures	1,703,325.77
FY 2013-14 Expenditures	0.00
FY 2014-15 Expenditures	0.00
FY 2015-16 Expenditures	434,694.91
FY 2016-17 Expenditures	75,000.00
<b>TOTAL EXPENDITURES</b>	<b>\$ 6,000,000.00</b>
<b>TOTAL COMMITMENTS AND EXPENDITURES</b>	<b>\$ 6,000,000.00</b>
<b>BALANCE JUNE 30, 2017</b>	<b>\$ -</b>

## Appendix E

### GROWING GREENER II BOND FUND EXECUTIVE AUTHORIZATION STATEMENT June 30, 2017

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
<b>TOTAL EXECUTIVE AUTHORIZATIONS</b>	<b>\$ 50,000,000.00</b>
COMMITMENTS	<b>\$ 1,958,673.65</b>
EXPENDITURES	
FY 2005-06 Expenditures	\$ 323,562.07
FY 2006-07 Expenditures	2,925,987.35
FY 2007-08 Expenditures	3,596,835.59
FY 2008-09 Expenditures	4,967,237.88
FY 2009-10 Expenditures	7,389,308.92
FY 2010-11 Expenditures	10,734,584.94
FY 2011-12 Expenditures	6,887,968.37
FY 2012-13 Expenditures	3,790,487.65
FY 2013-14 Expenditures	685,906.41
FY 2014-15 Expenditures	99,973.89
FY 2015-16 Expenditures	3,798,872.59
FY 2016-17 Expenditures	2,570,054.59
<b>TOTAL EXPENDITURES</b>	<b>\$ 47,770,780.25</b>
<b>TOTAL COMMITMENTS AND EXPENDITURES</b>	<b>\$ 49,729,453.90</b>
<b>BALANCE JUNE 30, 2017</b>	<b>\$ 270,546.10</b>