

The Metropolitan Edison Company/Pennsylvania Electric Company

# SUSTAINABLE ENERGY FUND



## Report of 2012 Activities

January 10, 2013

## Fund Purposes

1. The development and use of renewable and clean energy technologies
2. Energy conservation and efficiency
3. Sustainable energy businesses
4. Projects that improve the environment in the Metropolitan Edison Company/Pennsylvania Electric Company service territories, as they relate to the companies' transmission and distribution facilities



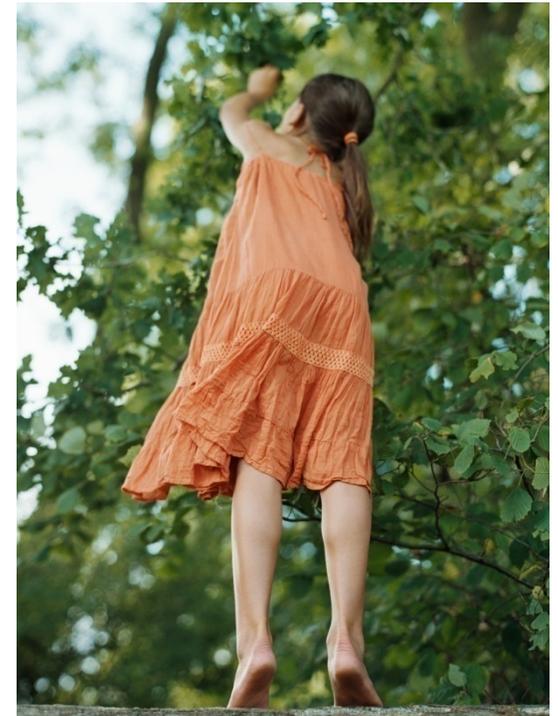
## 2012 Advisory Committee Members

<b>Mr. Derek C. James*</b>	<b>The Dome-Tech Group</b>
<b>Mr. Scott Gebhardt</b>	<b>Pennsylvania Public Utility Commission</b>
<b>Ms. Beverly Weaver</b>	<b>Erie County Housing Authority</b>
<b>Mr. Brian M. Vayda</b>	<b>American Powernet</b>
<b>Mr. Edward Miller*</b>	<b>Northwest Savings Bank</b>
<b>Mr. John Ubinger, Jr.</b>	<b>Pennsylvania Environmental Council</b>
<b>Mr. Frank D. Plank</b>	<b>Knouse Foods Cooperative, Inc.</b>
<b>Ms. Marybeth Smialek</b>	<b>FirstEnergy</b>

\*Resigned in October 2012 due to relocation/retirement

## Sample Activities

- Pittsburgh Green Building Alliance, Laurel Highlands affiliate
- Meetings with PA Sustainable Energy Fund reps
- PA BioMass Conference
- Funders Network for Smart Growth and Livable Communities
- Southern Alleghenies Planning and Development Commission
- Laurel Highlands Conservation Coalition
- Site visits for potential grants and investments
- Penn Future Energy Conference
- Presentations to various businesses and municipalities



**www.metedpenelecsef.org**

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**Loan Helps Golf Club Power Up With Solar**  
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**OUR MISSION**  
THIS FUND PROMOTES:

- the development and use of renewable energy and clean energy technologies
- energy conservation and efficiency
- sustainable energy businesses
- projects that improve the environment in the companies' service territories

**SUSTAINABLE ENERGY BLOG**

**PBEA Fall Conference**  
posted by [Mike Kane](#)  
on Monday, 30 July 2012

**Need More Info About PA Funding for Projects? Try These Sites**  
posted by [Heidi Williamson](#)  
on Friday, 06 July 2012

**FEATURED VIDEO**  
[Berks County Conservancy Eco-Adventure Camp](#)

**Advisory Board Vacancy**  
The Met Ed/Penelec Sustainable Energy Funds are seeking nominees for the Advisory Board. The Nomination Period will remain open until at least November 23, 2012. Through the making of loans, investments, and grants, the Funds promote the development and use of renewable energy and clean energy technologies, energy conservation and efficiency, sustainable energy businesses, and projects that impro...

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**PBEA Fall Conference**  
Join PBEA for its first annual Fall Conference, October 2 - 3 in Harrisburg! This two-day conference and expo brings together expertise and support for biomass in Pennsylvania for residential, small business, commercial, institutional, agricultural and the industrial sectors. Conference Overview On Tuesday, October 2, visit local businesses and institutions either using or creating biomass ...

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**PBIOMASS**

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## Staff

**Mike Kane**

**Angie Berzonski**

Penelec Sustainable Energy Fund  
Community Foundation for the Alleghenies



**Heidi Williamson**

Met Ed Sustainable Energy Fund  
Berks County Community Foundation



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Scott Gebhardt

Pennsylvania Public Utilities Commission

## **2012 Approvals**

From January 1, 2012 – December 31, 2012, the funds approved financing totaling **\$847,037**.

Of that total, \$172,037 was authorized for **9 grants** and \$675,000 was authorized for **4 loans/investments**.

## Since Inception

The Met-Ed/Penelec SEF has approved:



- **113 grants** totaling **\$2,342,075**
- **34 loans** totaling **\$20,493,724**
- **3 equity investments** totaling **\$1,600,000**

## 2012 Grants

Project	Amount	Comments	Date
Mid-Atlantic Renewable Energy Association	\$21,000	Residential Solar Educational Video	3/15/12
Berks County Redevelopment Authority	\$10,000	Geothermal for Apartment Complex	3/15/12
Greater Prospect, Inc.	\$45,900	Solar Thermal/LEED Commissioning for Food Co-Op/Laundromat	3/15/12
Cambria County	\$10,337	War Memorial Efficiency/LED Upgrade	7/26/12
Green Business Alliance	\$25,400	Northwest Branch Service Enhancement	7/26/12
Southern Alleghenies Planning & Development Commission	\$10,000	Energy Audits for Public Libraries	7/26/12
Sandusky Lee	\$25,000	Solar Panel and Inverter Installation	7/26/12
Johnstown Redevelopment Authority	\$10,000	LED Lighting for Urban Trail	11/30/12
JC Blair Memorial Hospital	\$14,400	Energy Auditing Services	11/30/12
*Phipps Conservancy			

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### 2012 Loans/Investments

Project	Amount	Comments	Date
Hydroconfidence	\$50,000	Oil to Natural Gas Conversion Equipment	7/26/12
Sandusky Lee	\$25,000	Solar Panel and Inverter Installation	7/26/12
CEWA	\$500,000	Solar Concentrator Dish	10/1/12
One Solar	\$100,000	Manufacturing Solar Grade Silicon	11/30/12

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## **Sandusky Lee**



## Sandusky Lee



## One Solar Energy

One Solar Energy is a silicon supply company, manufacturing the silicon used for the solar cells in the photovoltaic market. OSE has the technology to create solar grade silicon at a fraction of today's current market prices.



## One Solar Energy

Unlike other methods, the OSE process combines the initial melting with the refining while in liquid state; boron is removed through a process developed by OSE, and phosphorus is removed with hardware designed by OSE.

Once the metal has solidified, the purified SGS is removed in chunks that are processed into ingots for sale. The chemical silicon byproduct that still clings to the system is removed separately, and held for sale as well.



## 2013 Business Plan

- **Goal 1:** Develop sustainable and/or renewable energy projects that can be funded in the calendar year 2013.
- **Goal 2:** Use strategic grantmaking to fulfill the fund's conservation and environmental goals, including educational programs and the promotion of energy efficiency in non-profit, governmental, school district and commercial buildings.
- **Goal 3:** Place \$1,500,000 in investments in qualifying projects. These investments may be used to fund performance-based loans that allow for the implementation of renovations in non-profit, governmental and commercial buildings where a significant reduction in kilowatt hours drawn from the grid is anticipated.

## 2013 Business Plan

- **Goal 4:** To participate in the activities of state, regional and national sustainable energy fund networks.
- **Goal 5:** To maintain a website that promotes the fund, educates the public and offers insights into alternative energy.
- **Goal 6:** To maintain the due-diligence program established with Kutztown University's Small Business Development Center for alternative energy companies and projects.



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