

METROPOLITAN EDISON COMPANY/PENNSYLVANIA ELECTRIC COMPANY SUSTAINABLE ENERGY FUND

Introduction and Highlights

From January 1, 2013, to December 31, 2013, the Metropolitan Edison Company/Pennsylvania Electric Company Sustainable Energy Fund (Met-Ed/Penelec SEF) approved financing totaling \$1,314,443.

During the time period January 1, 2013, to December 31, 2013, Met-Ed/Penelec staff participated in numerous conferences and meetings as speakers and active participants to raise awareness of Met-Ed/Penelec SEF activities, including:

Representative Fund Outreach Activities 2013

- Presented 2012 Annual Report to the PUC in January, detailing fund activities.
- Attended the Building Conference in Morgantown, WV, focused on forging the best future using materials in-hand for renovations of buildings/structures, with technical tracks on commercial & education facilities' innovations in retrofitting buildings and taming energy costs, as well as sustainable communities.
- Attended Energy and Marcellus Shale Gas Workshop & seminar at St. Francis University's Renewable Energy Center, co-hosted by Johnstown Area Regional Industries, focused on providing an overview of the current oil and shale industry related to workforce, education, and small business needs.
- Presented Fund as part of CFA's 2013 Founders' Day celebrations.
- Developed a tri-fold brochure to be used to promote the Fund.
- Meeting with Cambria County grants administrator and SAPDC projects officer to discuss upcoming projects related to energy efficiency in county buildings.
- Conference call with PBEA planning committee regarding development of 2013 and/or 2014 regional workshop.
- Meeting with new director of St. Francis Renewable Energy Center for discussion on plans for 2013 series of workshops on renewable energy sources.
- Meetings/calls with Sustainable Energy Fund managers from across Pennsylvania to share information on projects and activities.
- Presented Fund mission, history, and opportunities to nonprofit representatives during a Grantmakers of Western Pennsylvania panel discussion in Indiana, PA.

- Presentations to the Johnstown Area Regional Industries, the Somerset County Economic Development Council, and the Bedford County Economic Development Council.
- Met with Rich Lunak of Innovation Works to discuss possible joint projects for projects location in the Penelec territory.
- Discussed funding opportunities with Gerard Eldering of InnovateTech regarding technology transfer opportunities for energy related startups.

Representative Program Specific Activities 2013

- Regular team meetings with eCap Network, CJL Engineers, Pennsylvania Environmental Council and local partners regarding Inclined Place AMD discharge geothermal feasibility/preliminary design.
- Regular meetings with CJL Engineering and other partners on Greater Prospect Co-op solar thermal installation in addition to monthly meetings with co-op committee.
- Site visit to potential project involving greenhouses in Windber, Somerset County.
- Discussed potential for a regional fund with Pat Getty of the Benedum Foundation as part of the Power of 32 Regional Vision outcomes.
- Phone call/inquiry from Doug Chizmar, Electric Power Savers, regarding an SEF lighting grant for CTC.
- Meetings with John Werling of eCap regarding status updates and pending projects, including, the Johnstown Area Heritage Association energy efficiency project, the Hollidaysburg YMCA renovations, the Johnstown YMCA and others.
- Represented the Fund at GBA Laurel Highlands' Branch networking event, meeting with Michael Sobkowiak of the Green building Alliance, Pittsburgh.
- Appointed to the board of the Pittsburgh GBA.
- Several tours/meetings regarding the Conrad Flatiron Building as a potential LEED renovation project.
- Site visit to potential project involving energy efficiency upgrades at Allegany College of Maryland, Somerset County.
- Meetings with John Dubnansky (Cambria County War Memorial Arena) regarding change in plans for LED lighting project.

- Research, interviews, site visits and teleconferences for the Energy Audit program.
- Follow up conversations with Doreen Petri of the Erie County School District regarding replicating its SEF-funded district-wide efficiency project.

Financial Approvals - Grants

| Project | Amount | Comments | Date |
|--|-----------|--|---------|
| Leg Up Farm | \$25,000 | Solar panel installation | 8/22/13 |
| MAREA | \$25,000 | Opportunity House solar hot water system | 8/22/13 |
| Reading Rising Park | \$14,421 | Solar lighting installation in the park | 8/22/13 |
| Oley Valley High School | \$6,022 | Lab equipment for demonstrations on solar energy and building/comparing cells | 8/22/13 |
| Somerset County Campus Foundation - Allegany College Md. | \$25,000 | Energy efficiency upgrades - installation of LED pendant lights in the library | 8/22/13 |
| PA Environmental Council | \$35,000 | General permitting program for qualifying small- and micro-hydro projects | 8/22/13 |
| Various nonprofits in the combined territories: Sovereign Center, Animal Rescue League, Greater Berks Development Fund's Gateway Building, Sovereign Performing Arts Center, Arcadia Performing Arts Theatre, Hollidaysburg YMCA, Cambria County War Memorial, United Way of Mifflin/Juniata, and The Learning Lamp. | \$100,000 | Energy Audit Program (Based on applications from NPOs in respective territories, each fund will grant no more than \$50,000 total toward level one energy audits.) | 8/22/13 |
| Zoological Society of Pittsburgh's International Conservation Center | \$9,000 | Upgrade to biomass furnace | 12/5/13 |
| Greater Johnstown YMCA | \$25,000 | Energy efficiency upgrades as part of capital expansion | 12/5/13 |

Loans

| Project | Amount | Comments | Date |
|----------------------------|-----------|--|---------|
| Pittsburgh Gateways | \$550,000 | Line of credit for Energy Innovation Center LEED-Platinum construction | 6/4/13 |
| Green Gas Pioneer Crossing | \$500,000 | Installation of a methane-to-gas generator | 8/22/13 |

Since inception, the Met-Ed/Penelec SEF has approved 122 grants totaling \$2,606,518; 36 loans totaling \$21,543,724; and 3 equity investments totaling \$1,600,000. The fund denied 48 grant requests, 26 loan requests and 7 investment opportunities. Denials occurred because the proposed projects did not meet the Fund's mission or had technological, financial and/or market difficulties.

Board Activities

The Met-Ed/Penelec SEF Advisory Committee consists of eight members, whose two-year terms are staggered so the terms of approximately half of the members end each year. Current members can run for re-election. The Advisory Committee Members for January 1, 2013 through December 31, 2013 were as follows:

| | | |
|--------------------------------|-----------------------------|-------------------------|
| John Ubinger (Chair) | Rep. Environmental Groups | Term Expires 12/31/2015 |
| Mary Beth Smialek (Vice Chair) | Rep. First Energy | Term Expires 12/31/2015 |
| Frank Plank (Secretary) | Rep. Industrial User Groups | Term Expires 12/31/2014 |
| Beverly Weaver | Rep. Weatherization Groups | Term Expires 12/31/2014 |
| Joseph Jacobsen | Rep. At-Large | Term Expires 12/31/2015 |
| Greg Winger | Rep. Commercial Customer | Term Expires 12/31/2015 |
| Brian Vayda | Rep. Independent Power | Term Expires 12/31/2014 |
| Brian Hill | Rep. At-Large | Term Expires 12/31/2015 |

Review of Technologies and Sample of Met-Ed/Penelec SEF Implemented Projects

Tier I:

Solar Photovoltaic

- Silicon cell panels – Hundredfold Farm and French Creek Ridge
- Printed electronics – Plextronics
- Solar installer training – Conservation Consultants
- Solar lighting – 2nd & Oley playground
- Solar lighting – Welcome sign to City of Reading
- Solar cell panels – Lacey Electric
- Solar cell panels – Rodale Institute
- Solar array – Scottish Heights
- Solar cell panels – Epiphany
- Solar panels/inverter – Sandusky Lee
- Solar panels – Phipps Conservancy
- Solar concentrator dish production – CEWA
- Manufacturing solar grade silicon – One Solar
- Solar panel installation – Leg Up Farm
- Solar lighting installation – Reading Rising Park

Solar Thermal

- Solar hot water system – Adams County
- Solar hot water system – MAREA

Wind

- Utility wind installations – Bear Creek/Forward/Lookout
- Supply chain facility – Gamesa
- Community wind – SFU Windmap/Renewable Energy Center/Anemometer Loan Program
- Winenergy Community Wind Conference
- Small wind systems – Shade Central City School District, Meadville School District, Southern Alleghenies Conservancy, Wayne County Conservation District, Evergreen Conservancy Tonoma AMD site and New Tech Wind

Low Impact Hydro

- Micro- and low-hydro statewide conference
- PA Environmental Council - general permitting program

Biogas and Coal Mine Methane

- Pioneer Landfill gas to electricity G.A.S.
- Johnstown Regional Energy
- Green Gas Pioneer Crossing

Biomass

- Farm digester – Native Energy
- Wood waste – United Corrstack
- Ethanol-Regional Economic Development Initiatives
- PGH Zoo Somerset International Research Center
- Biomass Boot Camp
- First Nation Wood Pellets
- Organization - PABIOMASS Energy Association
- Pittsburgh Zoo International Conservation Center biomass furnace improvements

Demand Side Energy Conservation and Efficiency

- Pymatuning Lab
- Somerset Conservation District
- West Erie County Emergency Center
- Gildono Center
- Induction Furnaces- Birdsboro Alloying
- Police Athletic League/Olivet's Boys & Girls Club
- Cambria County War Memorial Arena
- Johnstown Area Heritage Association
- Mission Critical Solutions
- City of Reading Pagoda
- Green Building Human Services Center
- Allegheny College
- Millcreek Township School District
- Asbury Park Nature Center

- Hanover Public School District
- Concurrent Technologies Corporation
- Twin Valley Elementary School
- Southern York County Library
- York County Commissioners
- Albright College
- Hyndman Area Health Center
- Berks County Community Foundation LEED Platinum Headquarters
- Green Building Alliance
- Ground Source Heat Exchange – Allegheny Clarion Valley Dev. Corp.
- BosWell Pharmacy Services
- Crawford County Development Authority
- Rouse Estate
- Radiant Heating System – City of Johnstown Historic Carpenter Shop
- Energy Management Systems – Crispus Attucks Association
- eCAP Network Energy Management
- Windber Research Institute
- Renewable Manufacture Gateway
- Greater Reading Commerce Center
- Heritage Discovery Center
- Johnstown Flood Museum
- Pittsburgh Gateways
- Energy Commonwealth Community Energy Project Revolving Loan Fund
- Shawnee Country Market
- Disaster’s Edge Environmental Center
- Liberty LLC
- Allegheny College
- Berks County Redevelopment Authority
- Greater Prospect, Inc.
- Southern Alleghenies Planning & Development Commission
- Cambria County War Memorial
- Johnstown Redevelopment Authority
- JC Blair Memorial Hospital
- Somerset County Campus Foundation (Allegheny College of Md.)
- Pittsburgh Gateways
- Greater Johnstown YMCA

Supply Side Efficiency

- PA Environmental Council – Inclined Discharge Study
- Hydroconfidence – Oil to Natural Gas Conversion Equipment

Ocean and Lake Energy – None to Date

Non-Combustion Solid Waste – None to Date

Tier 1 Fuel Cells

- Solid-Exide Shade Central City School District
- Franklin Fuel Cells

Tier II:

Electricity from Eligible Waste Coal (New or Retrofitted Facilities) – None to Date

Integrated Gasification Combined Cycle – None to Date

Non-Tier 1 Fuel Cells – See Above Franklin Fuel Cells

Education (not including application of technologies listed above):

- K-12 Energy Curriculum Development – Penn State university
- CEEP Green Campus education
- Industry Specific – Clean Energy State Alliance
- Green Building Association of Central Pennsylvania
- NW PA and Laurel Highlands Chapters of Pittsburgh Green Building Alliance
- MAREC
- Pennsylvania Foundry Association
- US Green Building Council
- Manufacturers Association of Berks County
- Public Lebanon Valley Conservancy
- Penn Future
- Clean Energy Expo
- Berks County Conservancy – State of the Environment
- Keystone HELP
- WPSX –TV
- Southern Alleghenies Conservancy
- Berks County Community Foundation
- Erie School District
- Berks County Conservancy
- Mid-Atlantic Renewable Energy Association
- Green Business Alliance
- Oley Valley High School
- Energy Audit Program