

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

Report of 2018 Activities

February 7, 2019

Our Mission is to Promote:

- The development and use of renewable and clean energy technologies;
- Energy conservation and efficiency;
- Sustainable energy businesses;
- And 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.

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



2018 Advisory Committee

| | |
|------------------------------|----------------------------------|
| Ms. Marybeth Smialek (Chair) | Rep. FirstEnergy |
| Mr. Brian Hill (Vice Chair) | Rep. At-Large |
| Mr. Timothy Booth | Rep. Electricity Suppliers |
| Mr. Frank Plank | Rep. Industrial Users |
| Mr. John Ubinger, Jr. | Rep. At-Large |
| Ms. Beverly Weaver | Rep. Weatherization |
| Mr. Greg Winger | Rep. Commercial Customers |
| Mr. Davitt Woodwell | Rep. Environmental |
| Mr. Chady Zablit | Rep. Independent Power Producers |

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

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



Scott Gebhardt

Pennsylvania Public Utilities Commission

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



Sample Activities

- Performed site visits and correspondence for inquiries on potential projects throughout territories, provided all fund management, and represented the funds at various events, workshops, and financing sessions
- Participated in PA Department of Environmental Protection's "Finding Pennsylvania's Solar Future" project to analyze and develop a solar deployment plan for the state
- Managed sixth annual Energy Audit Grants Program for nonprofit organizations and small businesses in financially distressed communities

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

2018 Approvals

From January 1, 2018 – December 31, 2018, the funds approved **\$770,000** in total financing. This included **20 grants** totaling **\$335,000** and **3 loans** totaling **\$435,000**.

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

2018 Grants

| | | |
|--|---------------------------------|---------------|
| Pocono Environmental Education Center | Education Center Green Building | \$ 100,000.00 |
| Our Town Foundation/Hamburg Strand | Energy Audit | \$ 10,000.00 |
| Highland Community Library | LED Installation | \$ 5,000.00 |
| Para-Coat Technologies | LED Installation | \$ 5,000.00 |
| Lee Initiatives/Johnstown Concert Ballet | Energy Efficient Upgrades | \$ 25,000.00 |
| Altoona/Buckhorn Recycling Facility | Solar PPA & LED upgrades | \$ 10,000.00 |
| Reading Public Museum | 1st floor gallery lighting | \$ 10,000.00 |
| Genesis Theater | Stage lighting | \$ 20,000.00 |
| Kula Kamala Foundation | Ground solar array | \$ 25,000.00 |
| Allegheny Evangelical Lutheran Church | Energy Audit | \$ 10,000.00 |
| Arbutus Park Retirement Community | Energy Audit | \$ 10,000.00 |
| Camp Allegheny | Solar and LED Installation | \$ 25,000.00 |
| Camp Allegheny | Energy Audit | \$ 10,000.00 |
| Berks County Community Foundation | Energy Audit | \$ 10,000.00 |
| Early Connections, Inc. | Energy Audit | \$ 10,000.00 |
| DeVilbiss Healthcare | Energy Audit | \$ 10,000.00 |
| Railroaders Heritage Corp. | Energy efficiency upgrades | \$ 10,000.00 |
| Tyrone Snyder Public Library | Energy Audit | \$ 10,000.00 |
| Patton Public Library | Energy Audit | \$ 10,000.00 |
| Kirkridge Retreat Center | Energy Audit | \$ 10,000.00 |

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

2018 Loans

| | | |
|---|-----------------------------------|---------------|
| Altoona/Buckhorn Recycling Facility | Solar PPA & LED upgrades | \$ 10,000.00 |
| Biesecker Library (<i>convertible debt</i>) | Energy Efficiency Upgrades - LEDs | \$ 25,000.00 |
| Pittsburgh Gateways | EIC Development | \$ 400,000.00 |

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

Since Inception

The Met-Ed/Penelec SEF has approved:

- **213 grants** totaling **\$4,139,373**
- **47 loans** totaling **\$24,488,724**
- **3 equity investments** totaling **\$1,600,000**

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

Camp Allegheny



The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



Highland Community Library



The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



Kula Kamala Foundation



The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



Pocono Environmental Education Center



The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



New Strategic Direction

Renewable & Clean Energy Projects

SAINT FRANCIS UNIVERSITY
FOUNDED 1847
INSTITUTE FOR ENERGY

| | | | | | | |
|--------------------------|-------------------------|---------------|-------------------------|-----------------------|----------------|-----------|
| Alternative Vehicles | Anaerobic Digestion | Biofuels | Biomass | Energy Efficiency | Geothermal | Hydro |
| PPAs | RECs | Solar, PV | Solar, Concentrated | Solar, Thermal | Wind | Other |

at Pennsylvania Institutions, Incubators, Economic Development Centers, and Organizations

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND

New Strategic Direction






The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



New Strategic Direction

Most Typical Clean Energy Strategies Deployed:

-  Energy Efficiency Upgrades
-  Solar Projects
-  Purchase of RECs or PPAs with Renewable Generators

Biggest obstacles for deploying new clean energy technologies: Up front capital investment costs, slow return on investments, low and declining electricity costs, building ownership, and permitting.

Biggest motivations for deploying new clean energy technologies: Educational/teaching tool, organizational sustainability goals, and cost savings.

The most researched renewable technology is **solar**.

The most invested-in clean energy companies are:
biofuels/biomass, energy efficiency, and smart grids.

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

New Strategic Direction

NEXT BIG CLEAN ENERGY GAME CHANGER/BREAKTHROUGH:

- | | | |
|--------------------------------|--|---|
| 1 Energy storage technology | 4 Smart grids | 7 More wind farm construction |
| 2 Reductions in solar PV costs | 5 Federal/State renewable incentives & policies | 8 Use of existing dams for hydro-electric power |
| 3 Use of electric vehicles | 6 Building automation, sensors, & efficiency tech. | 9 Fuel cell technology |

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

2019 Goals

- **Goal One:** Provide up-front capital where needed in the form of grants or program-related investments to advance projects and support renewables
 - *Create and deploy an updated grant application based on the best practices for the funds*
 - *Allocate 1/3 of the available grant pool to these projects*
 - *Change from a rolling application to two set grant cycles each year*
 - *Promote each grant cycle within the territories*

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



2019 Goals

- **Goal Two:** Provide grants to support education, training, and workforce development in the renewable/sustainable energy field
 - *Identify educational institutions and workforce development entities that may have eligible programs based on the research conducted by St. Francis in 2018*
 - *Develop and deploy an RFP seeking programs within the fund territories that provide training for the installation and maintenance of renewable energy systems. Programs that address a critical training/safety need will receive preference*

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

2019 Goals

- **Goal Three:** Support energy efficiency efforts by providing grants for the creation of educational materials and grants or program-related investments to support buildings and retrofits
 - *Invite organizations to apply for a grant to create an Energy Audit Toolkit that (a) provides a first pass on energy usage and improvement, (b) provides specific guidance on professional energy audits and (c) provides background on how to find an unbiased energy auditor*
 - *Invite engineering firms to submit a proposal to conduct unbiased energy audits in each territory*

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

2019 Goals

- **Goal Four:** Provide grants to support research and development efforts at colleges and universities, particularly for programs that will close the gap on the cost difference between traditional energy technologies and renewables
 - *Meet with experts in the hydro and storage energy fields*
 - *Develop RFP and guidelines*
 - *Field test RFP and guidelines with experts*

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



2019 Goals

- **Goal Five:** Participate in relevant activities of state, regional, and national sustainable energy networks
 - *Attend workshops/conferences dealing with issues affecting the Fund.*
 - *Participate with other state, regional, and national staff to create sustainable energy projects.*
 - *Work with other state, regional, and national boards and staffs to explore other possible sources of funding for sustainable energy projects.*
 - *Provide PAPUC with relevant and up-to-date information on the activities of the Fund.*

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND



The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

www.metedpenelecsef.org

February 7, 2019
