

The Metropolitan Edison Company/Pennsylvania Electric Company

SUSTAINABLE ENERGY FUND 

Report of 2021 Activities

March 24, 2022

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.

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2021 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
Ms. Jennifer Schade	Rep. Commercial Customers
Mr. Dave Vollero	Rep. Independent Power Producers
Ms. Beverly Weaver	Rep. Weatherization
Mr. Davitt Woodwell	Rep. Environmental

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Staff

Mike Kane

Angie Berzonski

Penelec Sustainable Energy Fund
Community Foundation for the Alleghenies



Kevin Lugo*

Met-Ed Sustainable Energy Fund
Berks County Community Foundation



Scott Gebhardt

Pennsylvania Public Utilities Commission

*Kevin joined in October 2021, replacing Heidi Williamson who had served for many years. Heidi has transitioned into a new role at the Berks County Community Foundation.

2021 Approvals

From January 1, 2021 – December 31, 2021, the funds approved **\$791,785*** in total financing.

*The Met Ed/Penelec SEF operates on a calendar year, through December 31. But one grant, utilizing funds allocated in 2021, required additional deliberation and was not officially approved until January 2022.

2021 Financing

Berks History Center*	Energy Efficiency Project	\$10,000
Colebrookdale Railroad Preservation Trust*	Education Center	\$50,000
The Energy Efficiency Alliance*	CPace Program	\$45,000
Port Allegheny School District*	Energy Efficiency Upgrades	\$50,000
Bottle Works Ethnic Art Center*	Energy Efficiency Upgrades	\$35,000
Chestnut Ridge Wellness & Fitness*	LED Retrofit	\$785
Front & Centre Productions*	LED Retrofit	\$8,000
Camp Allegheny*	Solar Outdoor Lighting	\$8,000
University of Pittsburgh at Bradford*	Solar Powered Building & Efficiency Dashboard	\$230,000
Gannon University*	Adaptive Virtual Fault Current Limiters for Rural and Power Electronics-Based Microgrids	\$240,000
Dickinson College**	Waste to Energy	\$50,000
Somerset Conservation District**	Partners Hall Solar Installation	\$30,000
Mary S. Biesecker Public Library**	Solar Canopy Installation	\$25,000
Albright College**	Electric Vehicle Charging Station	\$10,000
	Total:	\$791,785

*Utilizing Endowed Funds

**Utilizing Alternative Compliance Payments

Since Inception

The Met-Ed/Penelec SEF has approved:

- **259 grants** totaling **\$5,861,637**
- **50 loans** totaling **\$25,043,724**
- **3 equity investments** totaling **\$1,600,000**

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2021 Spotlight Project

Strategic Plan Goal #3, Support Large Green Building Project

- One grant of up to \$230,000
- To support the construction of a green, sustainable, and/or natural building or the renovation of an existing building using energy efficiency principals
- Goal is to showcase the cost savings and energy savings inherent in applying these principles in a community where the building will serve as an example to others

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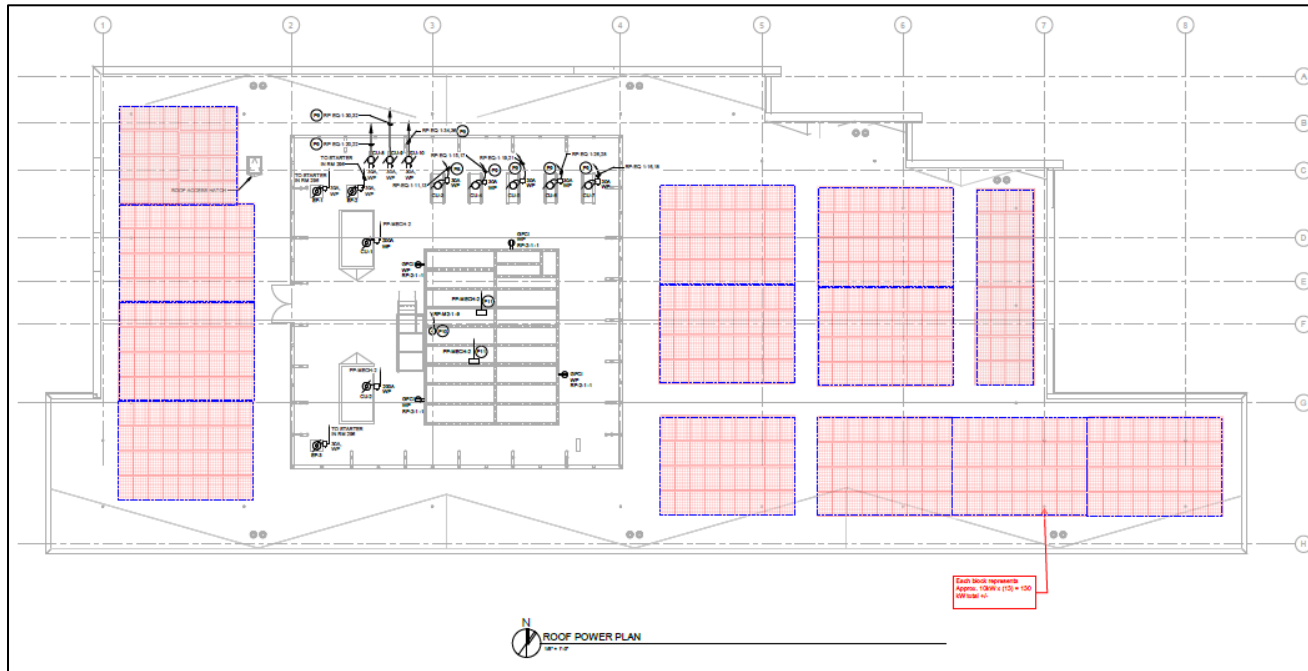


University of Pittsburgh at Bradford



- \$230,000 grant will support a full-roof solar installation on a new building producing 100,000+ kWh per year
- Building dashboard will aid in community education and engagement

University of Pittsburgh at Bradford



- Demonstrates the viability of renewable energy and enhances the visibility of building efficiency efforts in rural communities

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2021 Spotlight Project

Strategic Plan Goal #4, Support Research & Development

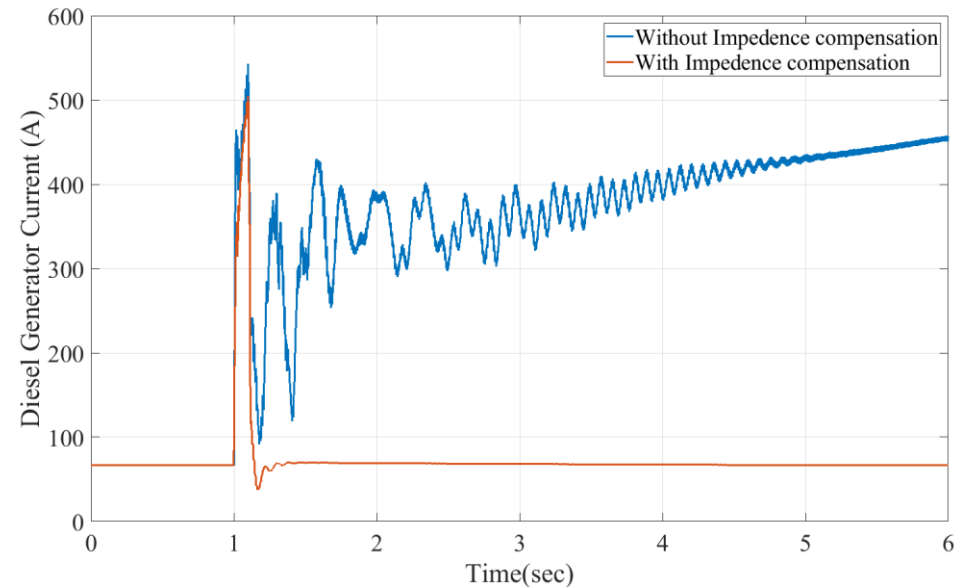
- One grant of up to \$240,000
- To support an applied R&D Goal of driving down energy consumption AND closing the gap on the cost difference between traditional technologies and renewables, making renewables a more attractive investment option
- Concentration areas: battery storage, grid resiliency, hydroelectric, carbon capture, other breakthrough technologies

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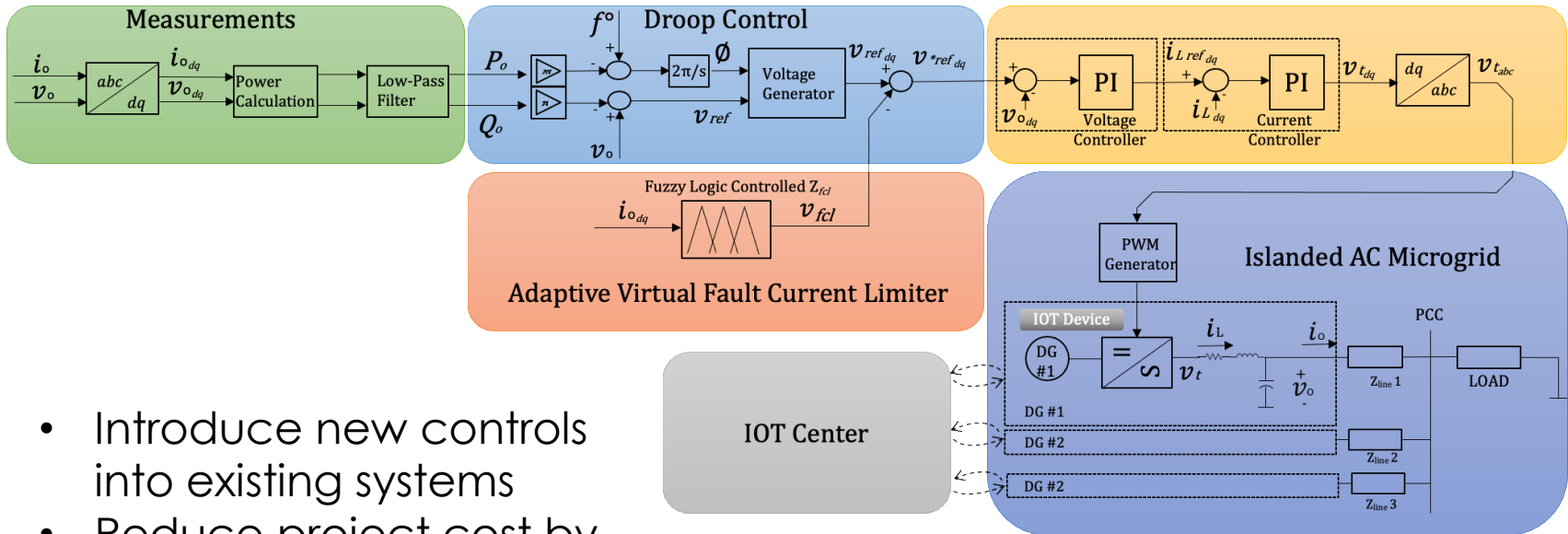


Gannon University



The Problem: Fault currents pose a risk for electric generation systems. Installing traditional physical fault current limiters can be prohibitively costly for small renewable energy projects.

Virtual Fault Current Limiters



- Introduce new controls into existing systems
- Reduce project cost by eliminating physical fault current limiters
- Improve financial feasibility of small-scale renewable energy projects more feasible

2022 Goals

- **Goal One:** Provide up-front capital where needed in the form of grants or program-related investments to advance projects and support renewables.
 - *Release a competitive grant application based on the best practices for the funds in January 2022.*
 - *Allocate 1/3 of available funds to these projects.*
 - *Promote grant cycle(s) within the territories.*
 - *Follow up with 2021 grantees to determine progress on projects.*



2022 Goals

- **Goal Two:** Provide grants to support education, training, and workforce development in the renewable/sustainable energy field.
 - *Reassess the fund's Strategic Plan and need for workforce development programs in light of COVID-19 pandemic.*
 - *Assess existing workforce development programs, such as the Bright Solar Futures and Green Retrofit Immersive Training, for success and transferability.*
 - *Develop knowledge of and interest in workforce development programs among educational institutions within the territories.*
 - *Consider launching an RFP, possibly in conjunction with additional funding sources, to bring an existing program to the territory.*

2022 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.
 - *Work cooperatively with local organizations to hold or fund energy efficiency education workshops to educate organizations on energy efficiency opportunities and connect them with project implementation resources.*
 - *Integrate PennTap Energy Audit Toolkits into grant applications and educational workshops.*
 - *Evaluate the need for and interest in extending the energy audit program operating in 2020 and 2021.*
 - *Develop and deploy an RFP in summer 2022 designed to provide a substantial grant to a signature building or retrofit project within each territory.*

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2022 Goals

- **Goal Four:** Provide grants to support research and development efforts, particularly for programs that will close with gap on the cost difference between traditional energy technologies and renewables.
 - *Monitor R&D grant awarded in 2021.*
 - *Determine need for additional R&D grant rounds.*
 - *Revise RFP as necessary if additional grant rounds are warranted.*
 - *Release RFP and conduct due diligence on responses, if additional grant rounds are warranted.*



2022 Goals

- **Goal Five:** Participate in relevant activities of state, regional, and national sustainable energy networks.
 - *Monitor availability of workshops/conferences dealing with issues affecting the Fund.*
 - *Be well represented at relevant state, regional, and national sustainable energy fund network activities and functions when they resume.*
 - *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.*

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www.metedpenelecsef.org

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