







Energy Programs Office

Building Auditor Training and Revolving Loan Fund Optimization

2022 NASEO Energy Policy Outlook Conference Thursday, February 10th, 2022 4:15 pm – 5:15 pm

Programs

Energy Auditors Training Program: \$40 Million

Maximum grant request of \$2 million to provide energy auditor training assistance –
 essentially workforce development for energy efficiency sector.

Energy Efficiency Revolving Loan Fund: Formula \$3.7 Million (PA)

New funding to capitalize or support a revolving loan fund for commercial & residential energy efficiency loans and audits.

Building Codes Assistance/Training: \$225 million

- Funds to be made available nationally over the next five years to be used for energy code workforce training, codes updates, implementation, and compliance.
- State Energy Offices apply <u>in partnership</u> with other eligible entities to support energy code workforce development.

Programs

State Energy Program:

• \$18.5 (PA) million to help implement programs and initiatives to address energy efficiency and renewable energy sources—energy emergency and resilience planning, industry, buildings, transportation, electric power and renewable energy, energy education, and policy, planning, and energy security.

Energy Efficiency and Conservation Block Grant Program:

• \$4.7 (PA) million to support small local governments and nonprofits programs with grants/rebates/financing for energy efficiency, renewable energy, and zero-emission transportation.

Competitive Funding Opportunities

(Insert your own state priorities)

Investment Priorities

Use Bipartisan Infrastructure Law funds to deliver a more equitable clean energy future.

Areas of focus:

- Energy conservation and efficiency
- Advanced energy technologies
- Energy security and resilience
- Clean Energy Workforce
- Climate change mitigation and adaptation
- Investing in environmental justice communities to reduce energy burden

Projects will:

- Increase the generation of reliable, clean, and affordable power
- Expand access to energy efficiency solutions and measures for families, communities, and businesses.
- Support innovative transportation and industrial clean energy solutions
- Develop a clean energy workforce and manufacturing capabilities.

Guiding Principles

Investing in environmental justice communities to reduce energy burden

- Apply EJ 40 Principles to guide investment of infrastructure funds in environmental justice communities, while meaningfully considering input in making decisions related to the design and implementation of programs.
- Ensure that all investment programs protect public health, safety, and welfare, mitigating any adverse impacts on human health, especially in environmental justice communities.
- Work to ensure environmental and structural racism are not replicated in gathering input or deploying engagement processes.
- Work with intentionality to distribute environmental and economic benefits of the investments in communities that have been disproportionately impacted by climate change and pollution.



Decision-Making Process

Investment priorities, goals, and ideas from Clean Energy Program Plan, Climate Action Plan, RGGI Investment discussions, etc.



Federally Managed Programs & Other State Agency Managed Programs

Transportation, Schools, EE, etc.

WAP, EV Infrastructure, etc.

Competitive Funding Opportunities

Energy Auditors Training Program

Building Codes Assistance Program



EECBG

EE Revolving Loan

State Energy Program

Existing SEP

BIL SEP

Other Potential Funding Opportunities

RGGI/Build Back Better

Long-term BIL Competitive Funding

Decision-Making Process

Current analysis of investment opportunities

Incorporating ideas from recent reports, programs, experiences and discussions:

- 2020 PA Clean Energy Program Plan
- 2021 PA Climate Action Plan
- 2021 RGGI Investment Roundtables and Draft Investment Plan
- Current, and past successful programs
 - Green Energy Loan Fund
 - Alternative Fuels Incentive Grants and Act 13 Programs
 - Drive PA Forward Programs (VW Mitigation Penalty Funds)
 - Pennsylvania Energy Development Authority Grants
 - Local Climate Action Planning & Strategic Energy Manager Program
 - Industrial Energy Assessment Program
 - ARRA Green Energy Works! & Conservation Works! & Home Heat Rebate
 - Small Business Advantage Grant Program
 - KeystoneHELP
 - PA Sunshine Program
 - Energy Harvest Program



Review - Learn

Energy Efficient Appliance Rebate Program

Replaced old, outdated, less energy-efficient, non-electric hot water heaters, furnaces and boilers in homes with new, more energy-efficient models.

- \$11.3 million
 - 16,574 Projects (equipment removed, replaced and recycled as appropriate)
- Had a qualified contractor installation requirement insured that EE jobs would be created/supported within the Commonwealth.
 - Spurred job growth for
 - Contractors and Installation Technicians.
 - Manufacturers, Distributors and Retailers

Comprehensive Network of Program Partners

- Utilities
- Sears, Lowes
- KeystoneHELP Contractor Network
- ✓ Program lacked audit/measurement



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Keystone Home Energy Loan Program (Keystone HELP®) Home Energy and Geothermal Loan Program: (ARRA 2014 data – \$12 Million)

Keystone HELP

- 6,056 consumer loans valued at \$52.9 Million
- PHFA Renovate and Repair 408 loans valued at \$8.7 Million

Geothermal

• 542 loan, valued at \$7.5 million

Outcomes:

- 21.2 MWh of electricity saved
- 153,592 MMBTU reduction in heating fuel consumption
- 11,2687 tons of CO2e emissions
- 11 million sq ft
- 218,000 job hours

*Data points

- 2011-2012 \$219,000; 394 persons trained: BPI Analyst, Envelope, Home Perf
- 396 Prequalified Projects, 327 Onsite Inspections, 268 Participating Contractors

GREEN ENERGY LOAN FUND

The Department of Environmental Protection (DEP) launched a clean investment program called GELF in 2010–and its been nothing but success ever since.



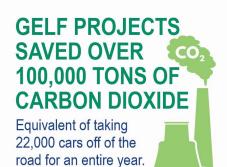
DEP created GELF by investing \$12 million dollars of federal funds into energy efficiency projects for businesses, schools, multi-family housing, and healthcare buildings.



GELF funds are partnered with over \$350 million of addition capital, meaning for every dollar GELF provided, another fifteen dollars was invested into the projects.

REVOLVING FUND

The original funds continue to be reinvested, allowing for a total of \$30 million invested into clean energy projects across PA. There have been zero losses in the program since it began.





18 PROJECTS

Reducing Emissions

GELF helps communities invest in projects to reduce emissions & utility costs—increasing the bottom line and combating climate change.

INVESTMENTS IN LOW-TO-MODERATE INCOME COMMUNITIES

Over half of funded projects have been located in low-income census tracts.



LEARN MORE ABOUT GELF

Implementation Options Summary

Increase the generation of reliable, resilient, clean, and affordable power

- Clean energy project grants and financing
- Increase Energy Storage potential and Microgrids
- Renewable energy site assessment & development as a part of redevelopment
- Transmission & Energy Assurance planning

Expand access to energy efficiency solutions for families, communities, and businesses

- Industrial, commercial, and residential EE programs
- Financing and grants for local governments in EJ communities that assists with RE and EE projects
- EE Rebates for residents, business to save energy and mitigate/adapt to climate change.
- Assist local governments with limited capacity to apply and receive federal funding
- Increase opportunities for Shared Energy Manager Program, Pooled Procurement of EE, & Local Climate Action Planning

Identify and deploy Innovative Transportation, and Industrial Clean Energy Solutions

- Support PennDOT EV Infrastructure funding initiatives
- Hydrogen CCUS Opportunity Assessments

Develop a clean energy workforce and manufacturing capabilities

- Energy Auditor Training & Building Codes Training Programs focused in EJ and Traditional Energy Communities
- Clean energy apprenticeships & workforce analysis research









Energy Programs Office

Thank you!

David Althoff

Director
Energy Programs Office
dalthoff@pa.gov

DEP Website: www.dep.pa.gov

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DEP Energy Programs Website:

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