

# Climate Change Advisory Committee Meeting

Energy Programs Office  
December 17, 2024





Pennsylvania  
Department of  
Environmental Protection

# Agenda

- **Roll Call, Introduction**
- Approval of October Minutes
- Public Comment
- Presentation/Discussion –  
DEP's Shared Energy Manager  
Program
- Break
- Presentation/Discussion –  
PA Home Energy Rebates
- DEP Updates
- Meeting Wrap Up
- Review February Agenda
- New Business



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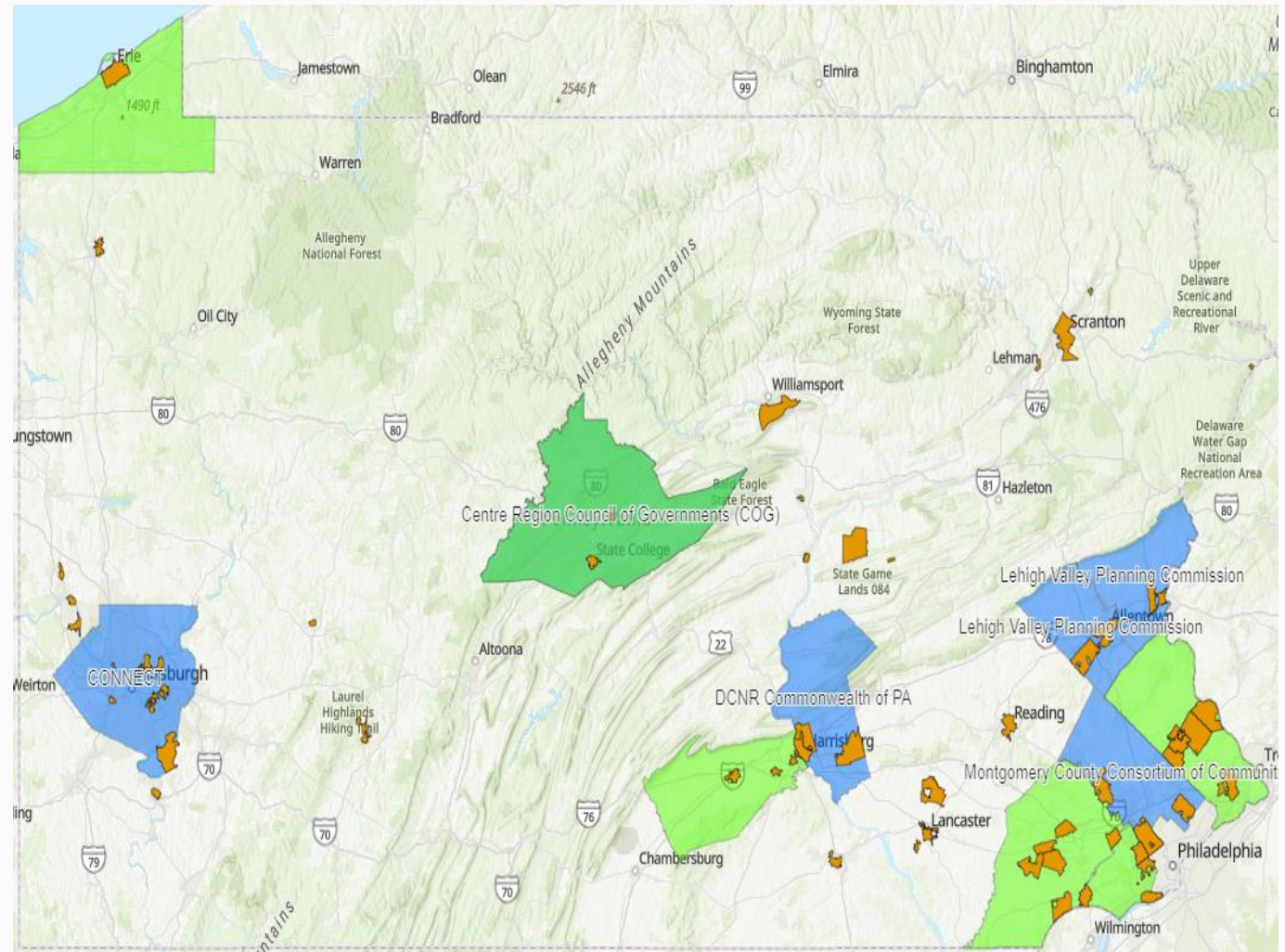
# **Public Comment**

## **(15 Min)**

# Energy Programs Office: Shared Energy Manager

December Climate Change Advisory Committee Meeting  
December 17, 2024







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# Shared Energy Manager



[Home](#) [Decarbonization](#) [Services](#) [Experience](#) [Blog](#) [About](#)

## Energy. Environment. Enterprise

Wilson Engineering Services, PC (WES) partners with clients to develop economically, environmentally, and socially sustainable projects and programs. Each project provides its own unique set of challenges and opportunities, and we take pride in collaborating with our clients to ensure they are able to meet the challenges and capitalize on the opportunities.

WHAT WE DO



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# Municipalities and Scope of Work

## LED Street Light Upgrade Locations

Estimated 1300 total City-owned street lights. Estimated 715 poles with 752 fixtures to be upgraded to LED. Estimated , of which estimated 408 are eligible for CDBG funding (Residential, LowMod, not Flood Plain). Currently, fixtures are a mix of High-Pressure Sodium Vapor, Mercury Vapor and Metal Halide.

Prepared: 8/27/2020  
by Kevin Lugo, SSW Manager



## Easton Wastewater Treatment Plant RNG Opportunity

PATRICK MARTIN & MICHAEL STAHLY  
WILSON ENGINEERING SERVICES, PC

This presentation is provided through support and funding from the U.S. Department of Energy's State Energy Program and the Pennsylvania Department of Environmental Protection.

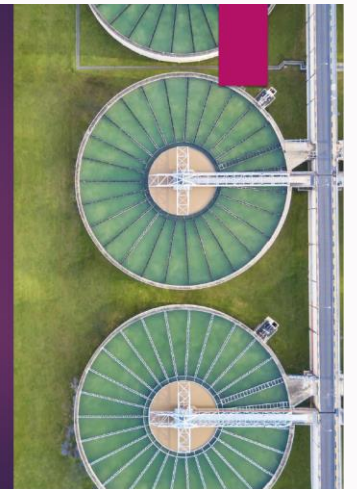


Table 7 – SUV Replacement Options Economic Comparison

| Parameter                | Toyota Rav4 (ICE) | Toyota Rav4 Prime (PHEV) | Hyundai Ioniq 5 (BEV) | Chevy Bolt EUV (BEV) |
|--------------------------|-------------------|--------------------------|-----------------------|----------------------|
| Dealer Price             | \$28,190          | \$41,015                 | \$41,245              | \$34,495             |
| Gov. Incentives          | \$0               | \$0                      | \$7,500               | \$7,500              |
| Purchase Price           | \$28,190          | \$41,015                 | \$33,745              | \$26,995             |
| Annual Maintenance       | \$1,000           | \$800                    | \$500                 | \$500                |
| Annual Fuel              | \$981             | \$297                    | \$210                 | \$210                |
| Total Annual Cost        | \$1,981           | \$1,097                  | \$710                 | \$710                |
| 5-year Cost              | \$38,097          | \$46,502                 | \$37,294              | \$30,543             |
| 10-year Cost             | \$48,004          | \$51,990                 | \$40,843              | \$34,091             |
| Annual CO2e (metric ton) | 2.1               | 1.0                      | 0.6                   | 0.6                  |



# Shared Energy Manager Results

Year 1

Table 1: Quantitative Totals for Identified Energy Management Opportunities<sup>1</sup>

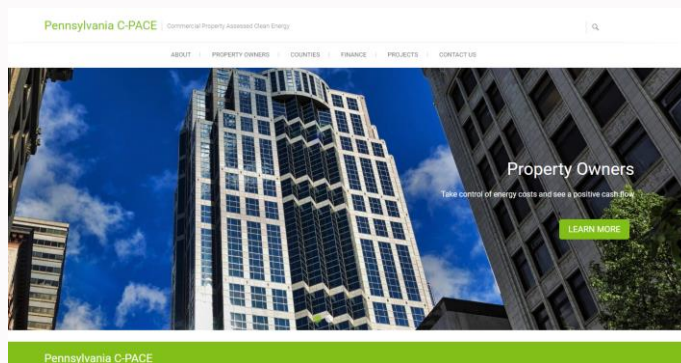
| Municipality       | Annual Cost Savings (\$) | Incentive Funding Potential <sup>2</sup> (\$) | Electric Savings (kWh) | Natural Gas Savings (MCF) | Annual GHG Emissions Reduction (MT CO <sub>2</sub> e) <sup>3</sup> |
|--------------------|--------------------------|-----------------------------------------------|------------------------|---------------------------|--------------------------------------------------------------------|
| Bellefonte Borough | \$141,097                | \$106,310                                     | 2,359,715              | 0                         | 857                                                                |
| Chester County     | \$82,210                 | \$57,381                                      | 1,426,581              | 0                         | 272                                                                |
| City of Reading    | \$17,378                 | \$16,949                                      | 182,783                | 632                       | 34                                                                 |
| Elizabeth Township | \$26,054                 | \$148,265                                     | 129,770                | 101                       | 22                                                                 |
| Indiana Borough    | \$158,933                | \$398,530                                     | 1,089,564              | 710                       | 275                                                                |

Table 1 - Quantitative Totals for Identified Energy Management Opportunities

| Municipality      | Estimated Savings (\$/yr) | Estimated Incentive Potential (\$) | Estimated Electric Savings (kWh/yr) | Estimated NG Savings (mmBtu/yr) | Estimated Gasoline/Diesel Savings (gal/yr) | Estimated GHG Emissions Reduction (MT CO <sub>2</sub> e/yr) |
|-------------------|---------------------------|------------------------------------|-------------------------------------|---------------------------------|--------------------------------------------|-------------------------------------------------------------|
| Abington Township | \$16,863                  | \$21,451                           | -139,126                            | 23,764                          | -                                          | 136                                                         |
| Ben Avon Borough  | \$13,711                  | \$2,514                            | -101,220                            | 2,030                           | -                                          | 54                                                          |
| Cumberland County | \$31,792                  | \$266,070                          | 258,102                             | -                               | 2,428                                      | 98                                                          |
| City of Easton    | \$379,596                 | -                                  | 116,992                             | 528                             | -                                          | 64                                                          |
| City of Shamokin  | -                         | -                                  | -                                   | -                               | -                                          | -                                                           |

Year 2

# SEM Expanded Scope & Size



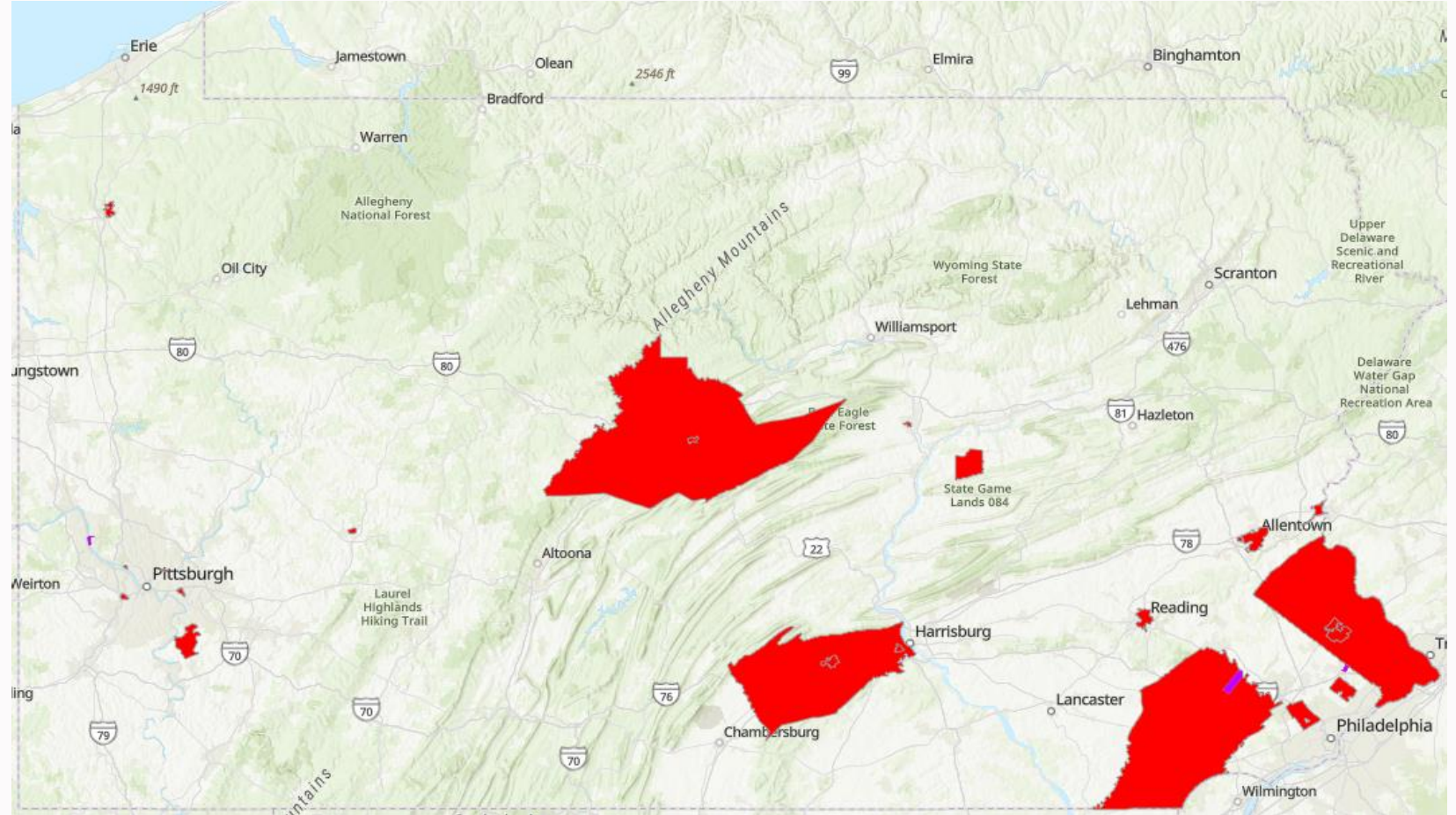
## Energy Efficiency and Conservation Block Grant Program

### Overview

|                                                          |                                                                 |
|----------------------------------------------------------|-----------------------------------------------------------------|
| <b>OFFICE:</b><br><br>State and Community Energy Program | <b>NEW PROGRAM:</b><br><br>No                                   |
| <b>FUNDING AMOUNT:</b><br><br>\$550,000,000              | <b>FUNDING MECHANISM:</b><br><br>Formula and Competitive Grants |
| <b>RECIPIENTS:</b><br><br>State/Local Government/Tribes  | <b>PERIOD OF AVAILABILITY:</b><br><br>Available until expended  |



# SEM Participants





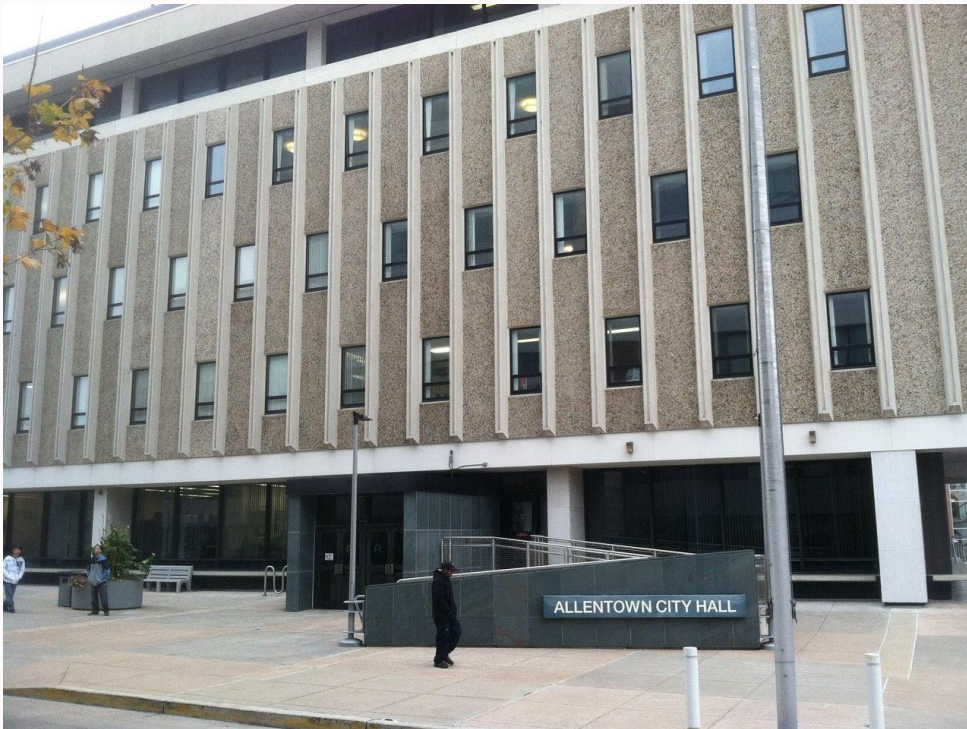
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# Abington Township



- EECBG Application
- AFIG Application
- Fleet Transition Study
- Pilot EV/Charging Project Scope & Funding Guidance

# City of Allentown



- EECBG Application
- AFIG Application
- Pilot EV/Charging Project Scope & Funding Guidance
- Public Works Solar Array Review
- EVSE Charging RFP
- GESA/Audit Guidance

# Bucks County



- EECBG Scoping and Assistance
- Benchmarking of Facilities
- ACT 129 Incentive Assistance

# Camp Hill Borough



- ASHRAE audit review and proforma assessment
- EV fleet assessment
- Solar PV Financial Analysis
- MORE Application

# Carlisle Borough



- Municipal Operations Plan Review
- CPRG Application

# Carnegie Borough



- Facility Benchmarking
- Building Lighting Analysis



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# Centre County COG



- EV Charging siting and feasibility
- EV Fleet Assistance
- Benchmarking Assistance



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# Chester County



- EECBG Application Technical Assistance
- Solar feasibility analysis for 313 & WWTP
- Pocopson Home Energy Benchmarking/GESA review
- Solar RFP Scope Assistance
- Energy Action Plan Scoping Assistance

# Cumberland County



- Solar Project Scoping and RFP
- Cumberland County Fleet Study



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# Cumberland County – Dickinson TWP



- Building Energy Assessment
- Benchmarking
- Solar Feasibility Analysis

# Cumberland County – Hampden TWP



- Building Energy Assessment
- Benchmarking
- Solar Feasibility Analysis



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# Cumberland County – New Cumberland



- Building Energy Assessment
- Solar Feasibility Analysis
  - Benchmarking

# Cumberland County – North Newton TWP



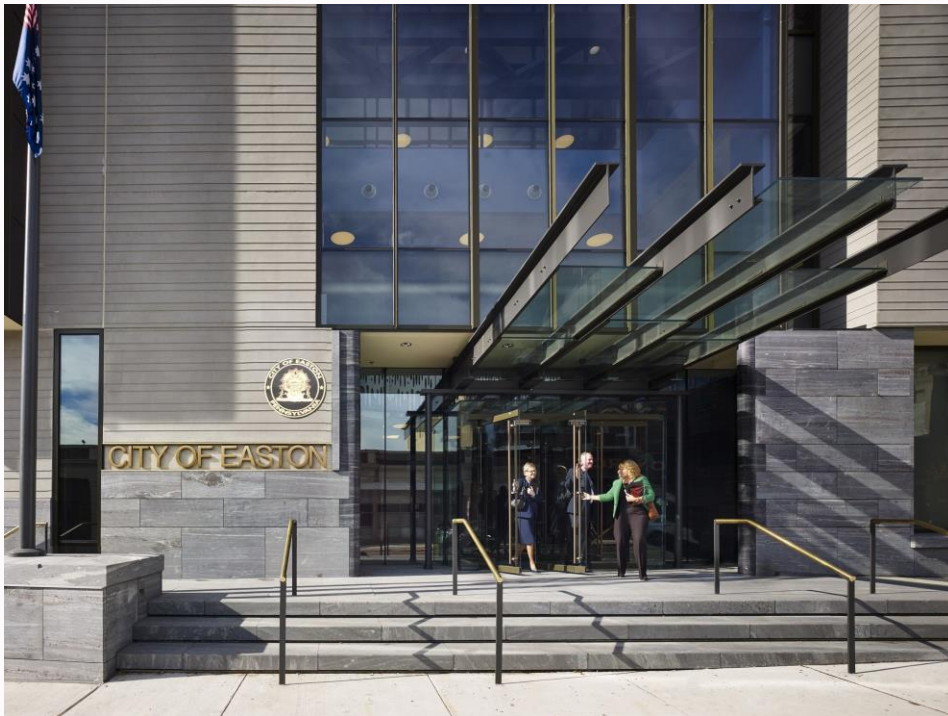
- Building Energy Assessment
- Benchmarking
- Solar Feasibility Analysis

# Doylestown Township



- Energy Benchmarking and Assessment of Admin Office and Police Station
- Fleet review
- Solar Feasibility Review

# City of Easton



- Solar RFP Scope Assistance
- Solar PV Feasibility Assessment
- EV Community Charging Plan
- Lafayette College Energy Plan Review

# East Pikeland Township



- Solar Ready and EV Ready Best Practices and Ordinances
- Solar PV Case Study Educational Material Development
- Electric Lawn Equipment Information

# Forest Hills Borough



- GESA Review and Assistance
- Incentive Identification and Application Assistance

# Hatboro Borough



- Fleet Study & Funding Guidance
- EV Charging Ordinance Review
- Parking Ordinance Review



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# Lewisburg Borough



- Street Lighting Control Modification Review
- Energy Assessments & Benchmarking Guidance
- WWTP Energy Review
- Solar PV Feasibility Study
- MORE Application

# Lower Merion Township



- Fleet Electrification and Charging Evaluation
- Tier II AEC Generation Review

# City of Meadville



- Solar Financing Options Evaluation and Feasibility
- MORE application assistance

# Sharpsburg Borough



- DLC Funding/Mosites Solar Project Technical Support
- Solar PV Site Selection Evaluation
- Solar Alternative Energy Credit Monetization Information
- AQD Application
- Benchmarking



# Program Results

|          |                        | S Savings Identified |           | NG Savings Identified (therms) |         | Electric Savings Identified (kWh) |           | GHG Emissions Reductions Identified (MTCO2e) |       | Incentive Funding Identified |              |
|----------|------------------------|----------------------|-----------|--------------------------------|---------|-----------------------------------|-----------|----------------------------------------------|-------|------------------------------|--------------|
| Code     | Municipalities         | EJ                   | Tot       | EJ                             | Tot     | EJ                                | Tot       | EJ                                           | Tot   | EJ                           | Tot          |
| ABT      | Abington Township      | -                    | \$12,129  | -                              | -       | -                                 | -         | -                                            | 35    | -                            | \$223,250    |
| AT       | Allentown              | \$435,889            | \$446,257 | 122,980                        | 122,980 | 4,947,110                         | 5,062,310 | 4,029                                        | 4,065 | \$336,324                    | \$336,324    |
| AB       | Ambridge Borough       | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| BC       | Bucks County           | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | \$515,880    |
| CHB      | Camp Hill Borough      | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| CLB      | Carlisle Borough       | \$773,400            | \$773,400 | 90,614                         | 90,614  | 5,404,042                         | 5,404,042 | 2,077                                        | 2,077 | \$14,356,593                 | \$14,356,593 |
| CNB      | Carnegie Borough       | \$2,209              | \$2,209   | -                              | -       | 24,542                            | 24,542    | 11                                           | 11    | \$4,360                      | \$4,360      |
| CR       | Centre Region          | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| CC       | Chester County         | -                    | \$23,723  | -                              | -       | -                                 | 244,571   | -                                            | 77    | -                            | \$478,705    |
| CBC      | Cumberland County      | -                    | \$668,600 | -                              | -       | -                                 | 8,472,000 | -                                            | 2,674 | -                            | -            |
| DT       | Doylestown Township    | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| EPT      | East Pikeland Township | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| EC       | Easton City            | \$15,597             | \$15,597  | -                              | -       | 113,256                           | 113,256   | 36                                           | 36    | \$65,663                     | \$65,663     |
| FHB      | Forest Hills Borough   | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| HB       | Hatboro                | -                    | \$4,753   | -                              | -       | -                                 | -         | -                                            | 4     | -                            | \$45,000     |
| LB       | Lewisburg              | -                    | -         | -                              | 209     | -                                 | 2,654     | -                                            | 2     | -                            | -            |
| LMT      | Lower Merion Township  | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| MC       | Meadville City         | \$17,150             | \$17,150  | -                              | -       | 180,200                           | 180,200   | 57                                           | 57    | \$213,820                    | \$213,820    |
| MV       | Millvale               | -                    | -         | -                              | -       | -                                 | -         | -                                            | -     | -                            | -            |
| SB       | Sharpsburg             | \$27,830             | \$27,830  | -                              | -       | 231,913                           | 231,913   | 112                                          | 112   | \$1,000,000                  | \$1,000,000  |
| Total    |                        | \$1,991,648          |           | 213,803                        |         | 19,735,488                        |           | 9,149                                        |       | \$17,239,595                 |              |
| EJ Total |                        | \$1,272,074          |           | 213,594                        |         | 10,901,063                        |           | 6,321                                        |       | \$15,976,760                 |              |



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# **Thank you!**

**Christopher Nafe, PhD  
Energy Program Specialist, PADEP  
Energy Programs Office**

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Harrisburg, PA**

**...**

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The Department of Environmental Protection's mission is to protect Pennsylvania's air, land and water resources and to provide for the health and safety of its residents and visitors, consistent with the rights and duties established under the Environmental Rights Amendment (Article 1, Section 27 of the Pennsylvania Constitution).



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**Break**  
**( 10 Min )**

# Agenda

- Roll Call, Introduction
- Approval of October Minutes
- Public Comment
- Presentation/Discussion –  
DEP's Shared Energy Manager  
Program
- Break
- **Presentation/Discussion – PA  
Home Energy Rebates**
- DEP Updates
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# Home Energy Rebates Overview

Department of Environmental Protection



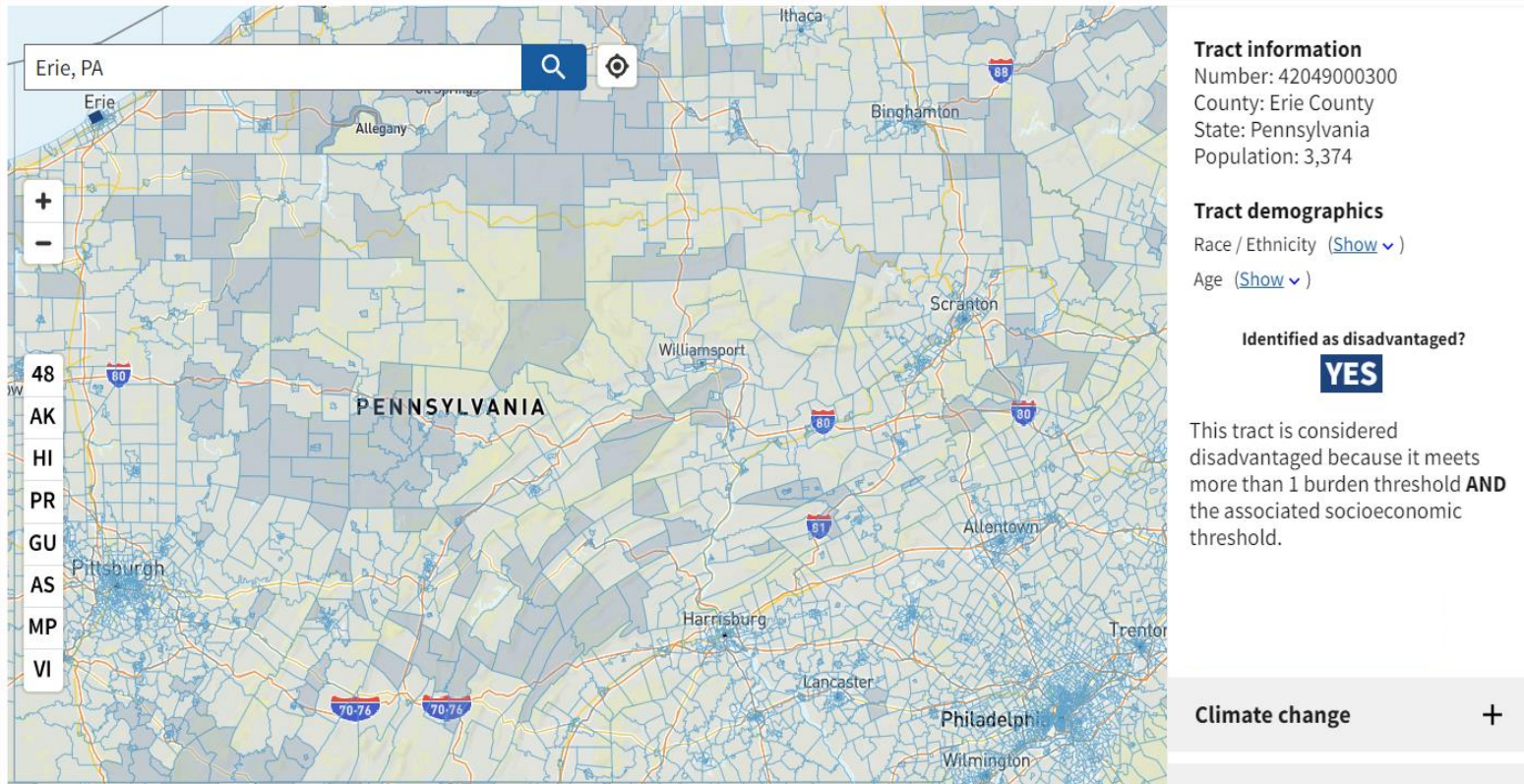
# IRA Home Energy Rebates

- Home Efficiency Rebates (HER)
  - Involves retrofitting households to enhance energy efficiency
  - PA allocated \$129,980,260
- Home Electrification and Appliance Rebates (HEAR)
  - Encourages adoption of appliances that are electric and consume less energy and lower costs
  - PA allocated \$129,226,380



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# Justice40 Initiative



- Ensure at least 40% of investments flow to disadvantaged communities (DACs)
- [Utilizing Federal CJEST map to define DACs](#)
- \$200 contractor incentive for completing projects in DACs

# Categorical Eligibility: Household Level

If households have information proving that they are part of one of these programs, they are categorically eligible for program funding assuming their building type is applicable to the program being applied to:

- Medicaid
- Supplemental Nutrition Assistance Program (SNAP)
- Head Start
- Lifeline Support for Affordable Communications (Lifeline)
- Food Distribution Program on Indian Reservations (FDPIR)
- National School Lunch Program – Free (NSLP)
- Housing Improvement Program (HIP)
- Housing Opportunities for Persons with AIDS
- Supplemental Security Income (SSI)
- Weatherization Assistance Program (WAP)\*\*
- Special Supplemental Nutrition Program for Women, Infants, and Children (WIC)\*\*
- Verified government or non-profit program serving Asset Limited Income Constrained      Employed (ALICE) persons or households
- Section 8 housing choice voucher program
- Low Income Home Energy Assistance Program (LIHEAP)

\*\*For WIC and WAP, Pennsylvania will use PNNL's AMI/FPL comparison tool during the application income verification process to confirm if an applicant that uses WAP or WIC meets criteria for categorical eligibility and to determine the rebate amount based on the household's location.

**NOTE: This information is subject to DOE approval. This chart indicates what DEP has stated in its application**



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## **Categorical Eligibility: Building Level**

**If building owners have information proving that their building is part of one of these programs, they are categorially eligible for program funding:**

- Public Housing (housing owned and operated by Public Housing Authorities)
- Privately owned multifamily buildings receiving project-based assistance (Section 8, Section 202, Section 811)
- Privately-owned multifamily buildings that house residents receiving tenant-based assistance
- Section 42 Low Income Housing Tax Credit (LIHTC)

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# HEAR Overview

- A point-of-sale rebate program limited to households below 150% AMI
- Incentivizes electric appliances and enabling measures with up to \$14,000 in total rebates for a given household
- Applies to both single and multifamily applicants

# HEAR Rebates

- Low-and Moderate-Income households (earning 150% or less of AMI)
- Covers labor and material costs for the qualified products

| Upgrade Type      | Qualified Product                        | Rebate Amount Not to Exceed |
|-------------------|------------------------------------------|-----------------------------|
| Appliance         | Heat Pump Water Heater                   | \$1,750                     |
|                   | Heat Pump for Space Heating or Cooling   | \$8,000                     |
|                   | Electric Stove, Cooktop, Range, Oven     | \$840                       |
|                   | Heat Pump Clothes Dryer                  | \$840                       |
| Building Material | Electric Load Service Center             | \$4,000                     |
|                   | Insulation, Air Sealing, and Ventilation | \$1,600                     |
|                   | Electric Wiring                          | \$2,500                     |
| Maximum Rebate    |                                          | \$14,000                    |

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# HEAR Rebates

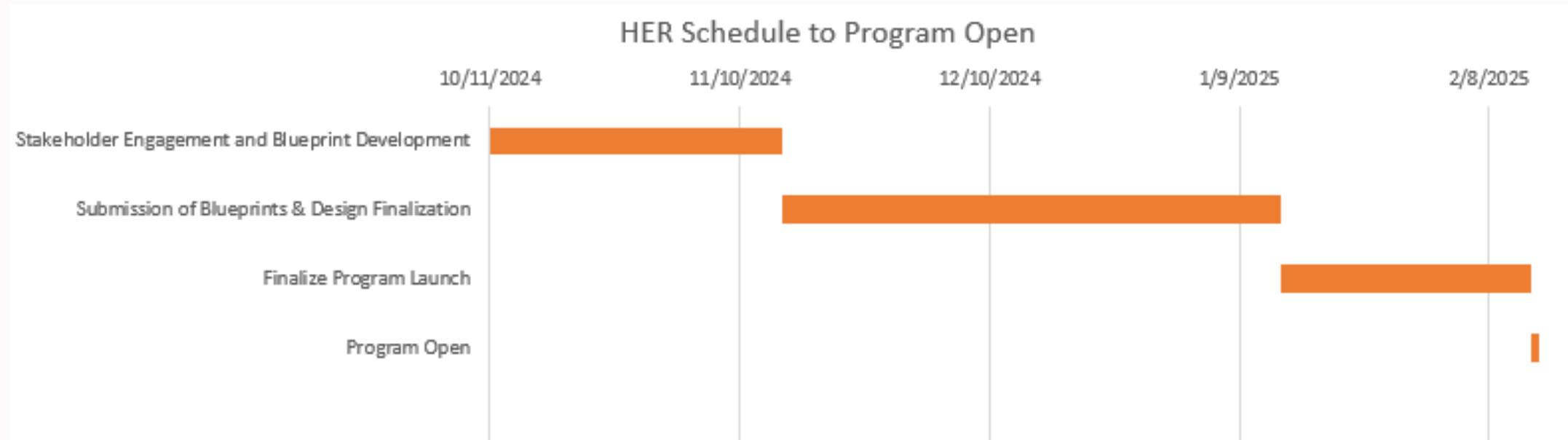
- Rebates limited to dollar cap or percentage of project cost, which ever is less

| Eligible Rebate Recipient                                                                                  | Income Level                                            | Rebate Amount Not to Exceed    |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------|
| Low- or Moderate-Income (LMI) Household or Eligible entity representative representing LMI household       | Less than 80% AMI                                       | 100% of qualified project cost |
|                                                                                                            | 81%-150% AMI                                            | 50% of qualified project cost  |
| Owner of multifamily building or Eligible entity representative representing owner of multifamily building | At Least 50% of residents with income less than 80% AMI | 100% of qualified project cost |
|                                                                                                            | At least 50% of residents with income of 81%-150% AMI   | 50% of qualified project cost  |

**NOTE: This information is subject to DOE approval. This chart indicates what DEP has stated in its application**



# HEAR Gantt Schedule



**NOTE: This schedule is subject to change based off the various approval windows the Home Energy Rebate Programs must go through**



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# HER Overview

- A rebate program focused on modeling energy savings; any ECM is eligible if it saves energy
- Rebate values depend on energy savings, more energy savings unlock more rebate value
- This program will be a multifamily exclusive program upon program open
- An ASHRAE Level II audit will be required to determine modeled savings calculations

# HER Rebates

- Rebates limited to dollar cap or percentage of project cost, which ever is less
- Whole building is eligible, not just the eligible units, if at least 50% of the building is of a qualifying income level
- Rebate levels are on a per unit basis, buildings can qualify for more

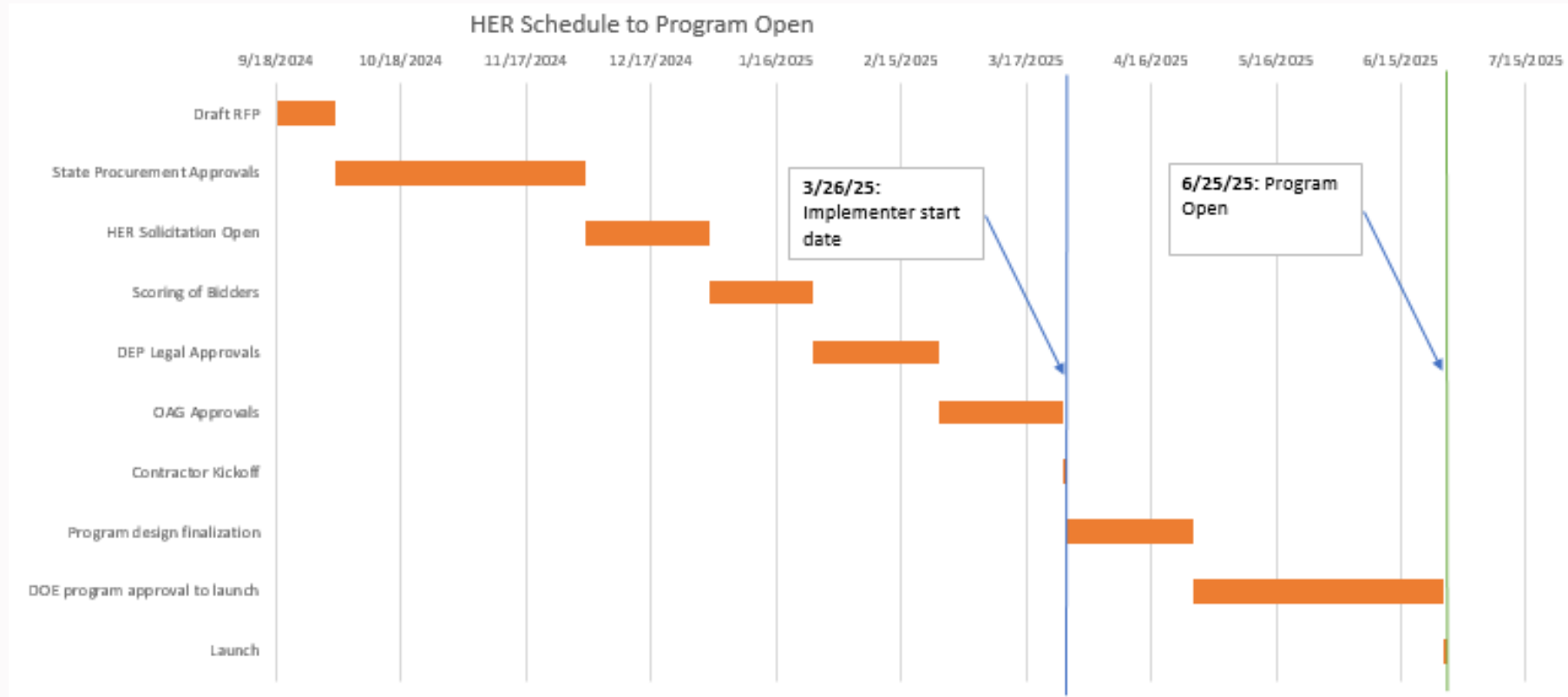
| Eligible Rebate Recipient                                                                                  | Income Level                                            | Modeled Energy Savings | Rebate Amount Not to Exceed (%) | Rebate Amount Not to Exceed (\$) |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|---------------------------------|----------------------------------|
| Owner of multifamily building or Eligible entity representative representing owner of multifamily building | At Least 50% of residents with income less than 80% AMI | 20-34%                 | 100% of qualified project cost  | 10,000                           |
|                                                                                                            |                                                         | 35%+                   |                                 | 16,000                           |
|                                                                                                            | At least 50% of residents with income of 81%+ AMI       | 20-34%                 | 50% of qualified project cost   | 2,000                            |
|                                                                                                            |                                                         | 35%+                   |                                 | 4,000                            |

**NOTE: This information is subject to DOE approval. This chart indicates what DEP has stated in its application**



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# HER Gantt Schedule



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**Thank you!**

**With questions, email:**

**[RA-EPHomeEngRebates@pa.gov](mailto:RA-EPHomeEngRebates@pa.gov)**



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# When Disaster Strikes Training



The Energy Programs Office has been working with PEMA using FEMA's Building Resilient and Efficient Communities (BRIC) funding to educate municipal staff including elected officials, township and borough managers and secretaries, disaster and facilities managers about energy efficiency and building energy codes as a mitigation strategy. Webinars, flyers and articles have been produced and will culminate in three WDS trainings: Allegheny Co EMA January 9, Location TBD February 12 and PEMA HQ March 25.

# Energy Auditor Training (EAT)

## Project Status:

DEP submitted a grant application to the U.S. Department of Energy in July 2024 for \$1.78 Million under the Bipartisan Infrastructure Law Energy Auditor Training (EAT) funding opportunity.

DOE awarded the grant to Pennsylvania DEP on October 24, 2024.

# Why energy auditor training?

The *2023 Pennsylvania Energy Efficiency Workforce Needs Report* showed a gap in available energy auditors in the Commonwealth and an aging workforce.

Disbursement of IRA funds for home energy rebates will lead to a growing demand for residential energy audits, spurring a need to train energy auditors to conduct energy audits in residential buildings.

# EAT Grant Goals

## Proposed Project Goals:

- Provide training for residential energy auditors and mentorships
- Provide training and mentoring to 150 individuals as part of this workforce development project
- It is expected that the majority of participants will receive Building Performance Institute (BPI) Home Energy Professional Energy Auditor certification.

# EAT Project Partners

## Training Partners/Exam Proctors:

The Clean Energy Center (CEC) at the Pennsylvania College  
of Technology

Energy Coordinating Agency (ECA) of Philly  
Action Housing, Inc. of Pittsburgh

## Recruitment/Marketing Partners:

Keystone Energy Efficiency Alliance (KEEA)

Building Performance Assoc. (BPA)

# **EAT Next Steps**

A contract with DOE is anticipated to be negotiated by January 2025.

DEP will be working with the Clean Energy Center as a grant subrecipient to manage the project.

Trainee recruitment and training will commence in 2025.



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# Get In Touch

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# Meeting Wrap-Up

## How do today's topics tie back to the CAP?

- **Shared Energy Manager:** Local implementation of energy efficiency and renewable energy measures.
- **BRIC:** Increasing resilience to extreme weather events.
- **Home Energy Rebates:** Implementation of energy efficiency and renewable energy measures for low/mid-income residents.
- **Energy Auditor Training:** Workforce building to implement building energy efficiency measures.

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# 2025 Meeting Planning

## Upcoming Meetings:

- Tuesday, February 18th, 2025
- Tuesday, April 22nd, 2025
- Tuesday, June 24th, 2025
- Thursday, August 21st, 2025
- Tuesday, October 21st, 2025
- Tuesday, December 16th, 2025

# Proposed Agenda

## February 18, 2025:

- Introduction
- Approval of December Minutes
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- **Presentation/Discussion – Update on CAP+**
- Break
- **Presentation/Discussion – RISE PA Update**
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