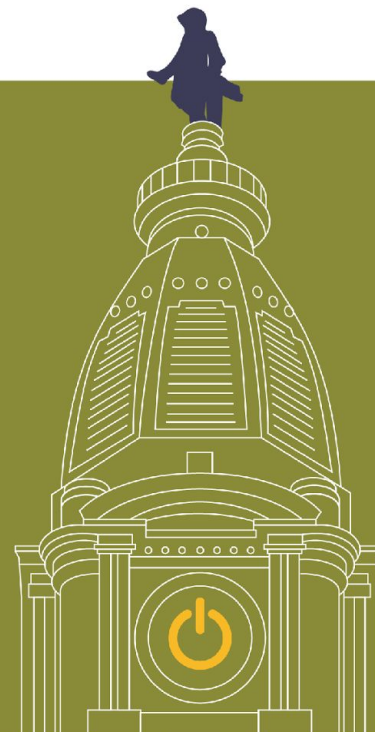




# Board Update – Q4 FY23

*July 26th, 2023*

Emily Schapira, *President & CEO*



# Organizational Updates

- FY24 Budget Approval
- Hiring Plan
  - Open now: Workforce Development Coordinator
  - Next up: Finance Director, IRA Manager, Program Coordinator (Built to Last), Grants Coordinator (Operations team) and Good Jobs Challenge Director
  - Last in: Communications Manager
- Summer interns!

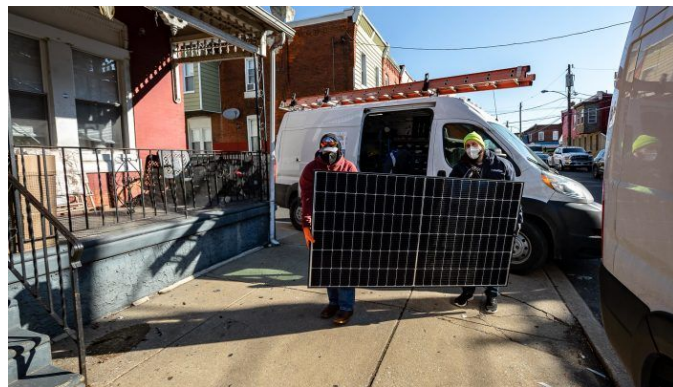
# City Budget

- PEA received a \$1.05MM increase over FY23 budget
  - Total FY24 budget from City = \$2.05MM
  - Raised additional \$6MM+ from various sources
- OOS received an increase of \$1.1MM
- Streets received \$5MM to support Future Track job training program
  - Performing alleyway clearing for streetlighting project



# Inflation Reduction Act

- Hired technical consultant to maximize impact of IRA in Philadelphia
  - Sustainable Capital Advisors - MBE financial advisory and consulting firm based in D.C.
- Solar for All / Greenhouse Gas Reduction Fund
  - Focus on LMI solar, community solar
  - PEA and PGCC working with DEP and PEDDA on PA-wide application due September 26
  - Applying as large-sized program (\$250MM-400MM, greater than 30K households served)
  - Sharing Philly program models statewide



*LMI solar lease install | Photo Credit: Jared Piper*

# Inflation Reduction Act

- Climate Pollution Reduction Grant
  - DVRPC received for \$1MM for regional planning
    - Multi-state planning and implementation of GHG reducing measures
    - Another round of funding available for implementation following the planning period
    - PEA and PGCC on steering committee and vendor selection committee
- Building America Retrofit Field Validation and Demonstration
  - PEA submitted application in partnership with Penn State University
    - To support data analysis of individual measures and whole-home energy performance in Built to Last program
    - \$1-\$3MM award potential

# Inflation Reduction Act / BIL

- Renew America's Nonprofits
  - PGCC and PEA joining onto 1-3 partner apps to help identify and connect local subrecipients to funding
    - Up to \$200K for nonprofit organizations to pursue energy efficiency retrofits
    - Application due August 3, awards announced October 6
- Buildings UP
  - PEA submitting application with BlocPower, Penn State and Hunting Park NAC/CRC
    - To support nonprofits, houses of worship and small businesses reduce their energy costs through energy efficiency projects, on-site renewable energy generation and overall decarbonization of their buildings
    - Due July 18

# PUC Commissioner Zerfuss Visit (5/11/2023)

- Visited ECA to learn about GRIT cohort and clean energy workforce development opportunities
  - Included sneak peek of heat pump training lab



# Philly Streetlight Improvement Project

- **\$91.2MM project**
  - 130K fixtures reached (replacement and/or connection to lighting management system) citywide
  - 50% energy use savings
  - No fixtures cut from scope - energy / O&M savings / rebates offset debt services in this budget neutral project
- Bond issuance on August 1
  - PEA's first issuance
  - On track to be City's first sustainable bond (green + social benefit)
- Construction kickoff on August 8 at Shepard Recreation Center (pictured)
  - Starting with majors and residential post-tops
  - Prioritizing "boosted" locations





# Adams Solar

- Project on track to meet target COD – December 2023
- Civil construction complete
- Panels laid on east side
- On-the-job training opportunities for PEA workforce development program participants slated for Summer 2023
  - Training on mechanical and/or electrical work, depending on areas of interest of participants

# Municipal Projects

Releasing two RFPs for municipal energy projects this summer

1. Quadplex+ GESA
  - 14 buildings including City Hall, MSB, One Parkway and Health Centers
2. Renewables for the City PPA (next Adams Solar)
  - Up to 490,000 MWh annual energy production from multiple sites = 3.5x Adams Solar
  - Would cover up to 75% of CoP municipal energy use

PNE Solar re-procurement/RFP to follow



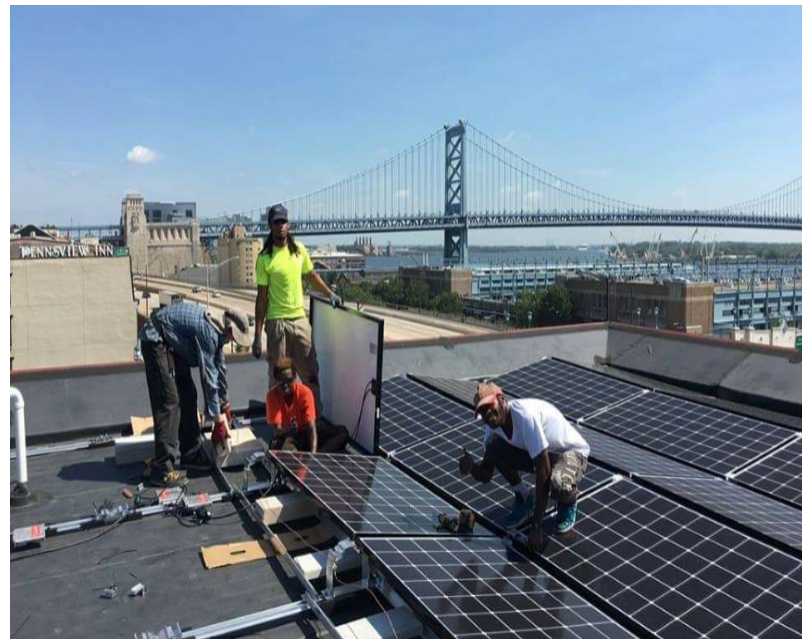
# Phase 5+6 (Sept 2021-Dec 2022)



- Introduced a solar lease option with PosiGen, no up-front cost, 3<sup>rd</sup> party maintenance and tax credits
- LMI projects have some subsidy through SREC purchases
- Launched Commercial Solarize w/ Solar States and EDPR (which includes new PPA option)
  - 66 commercial projects in pipeline

## Phase 5&6 Contracts Signed

- **LMI Residential:** 254
- **Market Rate Residential:** 461



# Phase 7 (2023)



- New Phase enrollment started in January 2023

## Phase 7 Goals

- **LMI Residential:** 250 homes
- **Market Rate Residential:** 500 homes

## Phase 7 Contracts Signed

- **LMI Residential:** 301
- **Market Rate Residential:** 97



# Progress to Date (Residential)



Contracts Signed as  
of Today



Contracted Solar  
Capacity



\$ Invested in Philly's  
Clean Energy  
Economy



Households  
Signed up



Direct Jobs Created

Phases 1-4

779

3.9 MW

\$13+ million

6,500+

98

Phases 5-7

1,113

6.2 MW

\$21+ million

20,000+

159



# EARTH WEEK 2023

INVEST IN OUR PLANET

**Mon, 4/17**  
**9-10am**

## Invest In Philly Press Event

North Apron of City Hall

**Mon, 4/17**  
**6-7pm**

## Residential Solar 101

Zoom Webinar

**Wed, 4/19**  
**8:30-10:30am**

## Why now is the time for Nonprofits and Houses of Worship to consider going Solar

First Presbyterian Church, Rittenhouse

**Sat, 4/22**  
**10am-12pm**

## Earth Day in Fishtown

Fishtown Rec Center



Learn more at  
[philaenergy.org/event/earth-week-2023/](https://philaenergy.org/event/earth-week-2023/)



Philadelphia Energy Authority

April 24 · 🌐

Highlights from our 2023 Earth Week events!

We had a great turnout for our kick-off press event, Solar Webinar, Solar panel for nonprofits and houses of worship, and Fishtown community clean up. Special thanks to those who attended and those who made these events possible.

To learn about more of PEA's upcoming special events, please visit our website:

<https://philaenergy.org/events/>





Philadelphia Energy Authority

April 20 · 🌐

...

PEA had a great turnout at our Earth Week panel yesterday at the [First Presbyterian Church in Philadelphia](#) on "Why now is the time for nonprofits and houses of worship to go Solar." Special thanks to our presenters from [Solar States](#), [PosiGen](#), & the Philadelphia Green Capital Corp. for great conversation and to all those who attended for their thoughtful questions.

Visit our website to learn how you too could go Solar and invest in our planet!

<https://philaenergy.org/>



Philadelphia Energy Authority

April 17 · 🌐

...



Councilmember At-Large Sharon Vaughn

April 17 · 🌐

Happy #EarthWeek! Thank you to Emily Schapira and the [Philadelphia Energy Authority](#), along with some incredible partners, including my [PHLCouncil](#) colleagues [Councilmember Katherine Gilmore Richardson](#) and [Councilmember Jim Harity](#), for your work and steadfast support of our city's sustainability initiatives! Great kickoff presser this morning announcing over \$89.6 million in clean energy investments in 2022 and more than 3,200 jobs since PEA's inception in 2016. See the full list of this week's events and learn more here: [philaenergy.org/event/earth-week-2023/](https://philaenergy.org/event/earth-week-2023/)



Pennsylvania Public Utility Commission · Follow

May 12 · 🌐

Commissioner Zerfuss toured [Philadelphia Energy Authority's Green Retrofit Immersive Training Program](#); joined by staff from [Senator Nikil Saval's office](#) and the [Energy Coordinating Agency Philadelphia](#). Senator Saval helped champion funding for this project. After the visit, Commissioner Zerfuss stated, "It's a collaborative of many local Philadelphia employers and organizations to support workforce development. The program trains Pennsylvanians for high demand energy jobs wit... [See more](#)





## Solarize Philly

Published by Alexis Lounsbury · April 11 ·

Join us tomorrow, April 12th at 6pm with [Climate Action Pennsylvania](#) to learn about Solarize Philly and the impact of the Inflation Reduction Act on renewable initiatives.

Register for this free virtual event here:



## Solar Energy in the Residential Space

APRIL 12TH 6:00-7:00 PM

MOBILIZE.US

Philadelphia's Transition to Energy Independence: Residential Solar Energy - Climate Action PA



## Solarize Philly

Published by Tabeen Hossain · June 15 at 4:25 PM ·

Join us this Saturday at 10am to learn more about Solarize Philly with N.O.A.H. (Neighbors of Overbrook Association) - either in-person at the Overbrook Environmental Education Center (6134 Lancaster Ave) or via Zoom at <https://us06web.zoom.us/j/89476234124...>



## Who

- Any home or business owner in Philadelphia

## What

- Vetted Installers
- High-Quality Equipment
- Discounted Prices

## Why

- Save Money
- Create Local Jobs
- Take Action on Climate Change

## Join us to learn more:

*In-person at the*  
Overbrook Educational  
Environmental Center  
6134 Lancaster Avenue, 19151

*Or remotely via Zoom*

**Saturday, June 17th 10-11am**

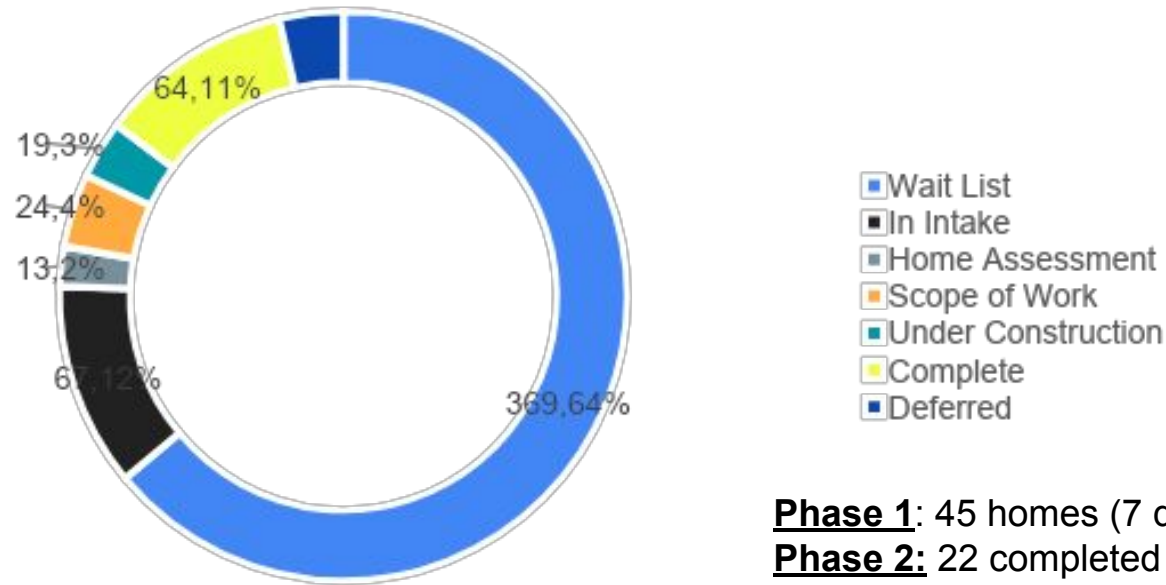
FOR MORE INFORMATION:  
**[solarizephilly.org](https://solarizephilly.org)**



City Hall, Room 566  
215.686.4483  
[solarize@phaenergy.org](mailto:solarize@phaenergy.org)

@solarizephilly  
[@phaenergy](https://twitter.com/phaenergy)

# BTL: Status of All Homes



**Phase 1:** 45 homes (7 deferred)

**Phase 2:** 22 completed so far

**Total pipeline:** 630+ homes

# Construction Spending

2.4

Average programs per home

\$35k

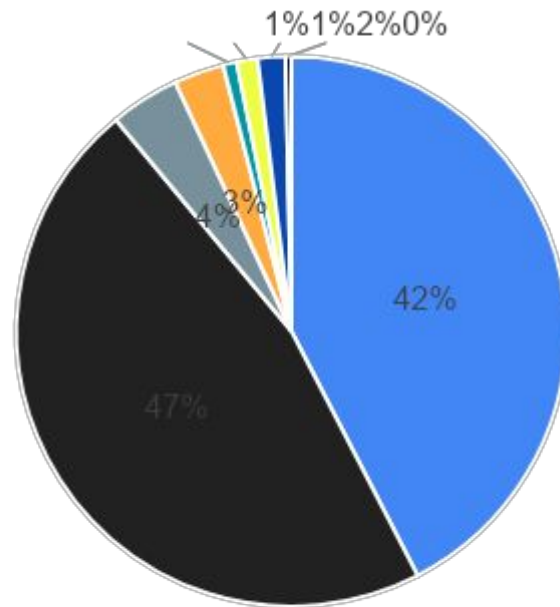
Average spending per home

\$16k

Average PEA spending per home

\$3.4m

Total spending projected by all programs (excluding solar)



■ BSRP ■ PGCC ■ HFHP ■ WAP ■ PGW ■ PECO ■ AWR ■ SHARP



# American Water Resources Partnership

- 85K customers in flagship Water and Sewer Line Protection Program
- 25K+ enrolled in new protection products
- \$55MM+ saved in repair costs for consumers
- 74% of claims to date serviced by M/W/DBE contractors
- 5% of all claims had an NOD from PWD  
- majority of infrastructure repairs are self-identified
- 5,500/month calls handled, 92% Customer Satisfaction

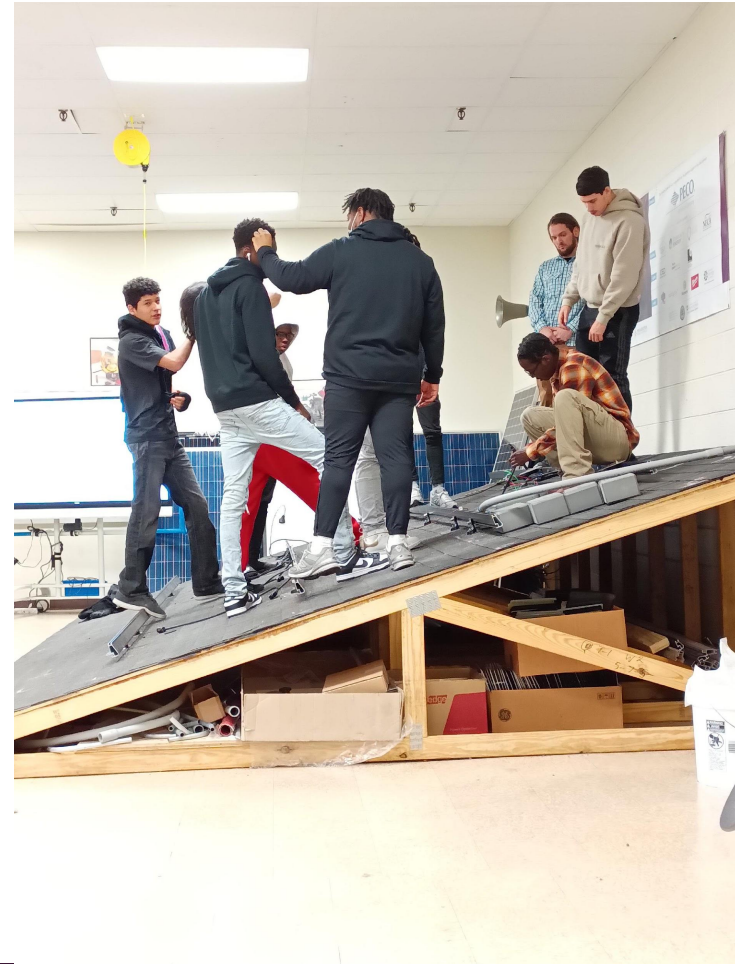
# Frankford High School Updates

## Updates

- School Closed: April 2023-? due to asbestos
- Seeking new teacher

## Current Numbers

- By June CTE #'s
  - 4 out of 5 seniors graduated
  - 4 rising Seniors
  - 15 rising Juniors



# BSF Solar Summer Program

Designed to be a tool to recruit and retain BSF CTE Students

- **Partners:**
  - ECA, FAVOR, Ride to Work, Solar States, Temple University
- **# of Students:** 30
- 4-Week Summer Enrichment Program running July 10-August 4, 2023



Recruitment Event for Summer Program

# Bright Solar Futures Program (OppY)

## Partnership w/ PowerCorpsPHL

- **Cohort 4:** January 17, 2023
- 13 weeks of training + 6-week internships
- 10 participants started
- 8 completed
- 2 placed into full time employment
- 6 completed paid internship - receiving placement assistance

## Total Results so far:

- 4 Cohorts: 57 participants enrolled, 36 Completed (63%)
- 32 Students were placed into paid internships (88%)
- 21 NABCEP Associates Certifications, 19 OSHA-30s
- 25 Placements to date (Jobs/Apprenticeships) (78%)





# Green Retrofit Immersive Training (GRIT)

## Key Stats:

- 18-week Green Residential Construction Program, includes 6-week field internship
- 3 Cohorts launched, 33 participants completed
- 25 completed Internships
- 80% placed into jobs, post-internship completion
- Average Wage: \$18.76 per hr
- Ongoing placement and follow-up services through December 2023
- 3rd cohort launched April 2023
- Funded by the EDA thru Good Jobs Challenge and other funders



GRIT Job Fair at ECA.

Credit: PEA 2022



# C-PACE Program

- Closed third multifamily project in Q4
- \$456,000 C-PACE fees earned in FY23
- 4 projects in FY 23 (\$89MM)
- 14 projects closed since July 2020 (\$158MM)



Land Economics Society event June 28 celebrated 5 years of C-PACE in Pennsylvania. From left to right, Lisa Shulock (Philadelphia Energy Authority), Stephen Arrivello & Ethan Elser (PACE Equity), Derek Green (Obermayer and Bellevue Strategies) and Greg Ambrogi (Ampere Capital Group).

# New Construction: Bromley Loom House

**Property Type:** Multifamily

**Financing Amount:** \$997,706

**Rate and Term:** 7.88%, 30 years

**Close Date:** 6/2/2023

**Building Measures:** Building envelope, HVAC, lighting, domestic hot water

**Environmental Impact:** 19% more efficient than required by Philadelphia's building energy code; reduction of the building's total lifetime carbon footprint by 2,530 metric tons of CO2 equivalent

**Neighborhood:** East Kensington



Property Owner: Ampere Capital Group



Capital Provider: PACE Equity



Qualified Engineer: PACE Equity



# Greenhouse Gas Reduction Fund Update

GGRF

Solar For All  
\$7B

Clean Communities  
Investment Accelerator  
\$6B

National Clean  
Investment Fund \$14B

LMI Solar  
Built to Last  
SREC Revolving Fund

Capitalize PGCC  
CDFI partnerships

Capitalize PGCC  
Leverage private sector

- NOFO released 6/28
- Application due 9/26

- NOFO released 7/14
- Application due 10/12
- Multiple national coalitions applying

- NOFO released 7/14
- Application due 10/12
- Multiple national coalitions applying



# Operations Update

- New Operations Coordinator – Welcome, Melissa!
- Planning for two new hires in FY24 – strategic growth and program expansion roles
- FY24 Budget projects positive year-end cash balance driven primarily by 280% increase in awarded funds
- IRA Consultant selected with PEA: Sustainable Capital Advisors
- Built to Last contracts for Phase 2 and beyond:
  - Habitat for Humanity Construction Management Contract
  - PHDC Whole Home Repair Contract



# Fundraising Update

- ✓ Secured: \$250K subgrant from William Penn Foundation
  - To support PGCC staff time, consulting engagement, and grant writing for GGRF applications and other IRA opportunities
  - Two year grant
  
- ✓ Secured: \$842K grant from Green Family Foundation
  - \$690K for LMI solar support in the Built to Last and Solarize programs (3 yr time horizon)
  - \$152K of flexible funding for operations and capacity building (1 yr grant)

# Contact

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[philaenergy.org](http://philaenergy.org)

[solarizephilly.org](http://solarizephilly.org)

[philadelphiaCPACE.org](http://philadelphiaCPACE.org)

[awrusa.com/Philadelphia](http://awrusa.com/Philadelphia)

[phillygreencapital.org](http://phillygreencapital.org)

