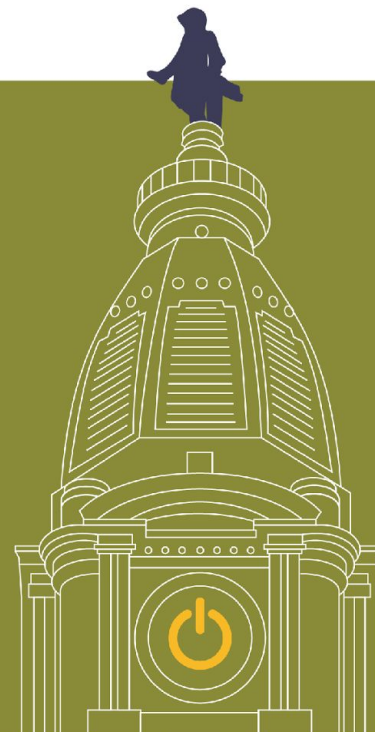




Board Update – Q1 FY24

November 15th, 2023

Emily Schapira, *President & CEO*



Organizational Updates

- Workforce Development Coordinator - Kayla Jones started September 11
- Sr. Policy Manager - Grace Hancock started November 9
- Finance Director, Good Jobs Challenge Project Manager, Built to Last Manager and Coordinator hiring ongoing
- DC Trip 11/15/23

Sick Days

- **Current:** 0 specified, embedded in personal and vacation days
- *Philadelphia Sick Leave Law (new!)*
 - Requires 1 hour of sick leave for every 40 hours worked, maxes out at 5 days
 - Applies to all companies with over 10 employees
 - Does not apply to part-time, interns, consultants or contract employees with less than 6-month contracts
 - Our HR consultant believes compliance requires at least 5 days to be specified as sick days (may be accrued or not), not part of other PTO
- **Recommended:** 10 “sick days”
 - Requires doctor’s note for more than 3 consecutive days
 - 10 rather than 5 signals the importance of not coming to work sick, which is culturally significant to PEA

Resolution 11152023-01: Sick Leave Policy

RESOLVED, the Board of Directors of the Philadelphia Energy Authority (the “PEA”), approves a policy to provide ten (10) “sick days” per calendar year for all PEA employees in addition to existing Paid Time Off, and authorizes PEA’s CEO to take all necessary steps to establish and administer the policy.

Sabbatical

- **Goals:**

- Long-term staff retention
- Attract top talent

- **Concept:**

- Up to 12 weeks off, 60% of salary, unrelated to other PTO
- Benefits remain intact, position held
- Available once every 7 years, cannot split, must take within 3 years of anniversary
- Unrelated to family leave (which is 12 weeks, 100% pay) or organ donation (100% pay for full recovery time)

- **Comps:**

- Corporate policies range from 4 weeks every 5 years to 12 weeks every 7 years, zero to full pay.

Resolution 11152023-02: Sabbatical Policy

RESOLVED, the Board of Directors of the Philadelphia Energy Authority (the “PEA”), in order to support long-term employee retention, approves the establishment of a policy to provide the opportunity for a sabbatical for PEA employees after 7 years of employment, and authorizes PEA’s CEO to take all necessary steps to establish and administer the policy.

IRA and BIL Funding

- **\$1.6B** in competitive and formula funding requests made statewide
 - Highlights:
 - **\$645MM** submitted by PGCC under Greenhouse Gas Reduction Fund
 - **\$750MM** awarded to MACH2 Hydrogen Hub
 - **\$100MM** awarded to PECO for grid resilience and reliability



Philadelphia Tribune / Abdul R. Sulayman

IRA and BIL Funding

- **Up next:**
 - Supporting DEP on State Contractor Training Grant, Home Energy Rebate Program
 - Participating in DVRPC-led effort on Climate Pollution Reduction planning grant, offered support on new implementation grant application



Strategic Consultant Support

- **Federal Level**

- 6-month contract with Holland & Knight to raise profile of PEA at federal level
 - Piggybacks off of City of Philadelphia's long-standing contract
 - Planning D.C. visits to members of the PA delegation and Biden administration officials in November
 - Demonstrate leadership on IRA, identify opportunities for support of clean energy projects and programs

- **State and Local Level**

- 6-month contract with Bellevue Strategies to raise profile of PEA at the state level and with the incoming mayoral administration

Philly Streetlight Improvement Project

- **\$92MM bond** issued by PEA on August 1
- [News coverage](#) of construction kickoff + press event on August 8
- **4,795 fixtures** installed/connected to management system from Aug 8-Oct 20
- Installed fixtures + two-week look-ahead [map live](#)



Public Recognition for PSIP

- **Winner** - Alliance to Save Energy's Transportation Infrastructure Award →
- **Winner** - Green Building United Groundbreaker Award - Sustainable Design Category ↓



Adams Solar

- Project on track to meet target COD – December 2023
- PEA workforce development graduates working on project



Municipal Energy Projects

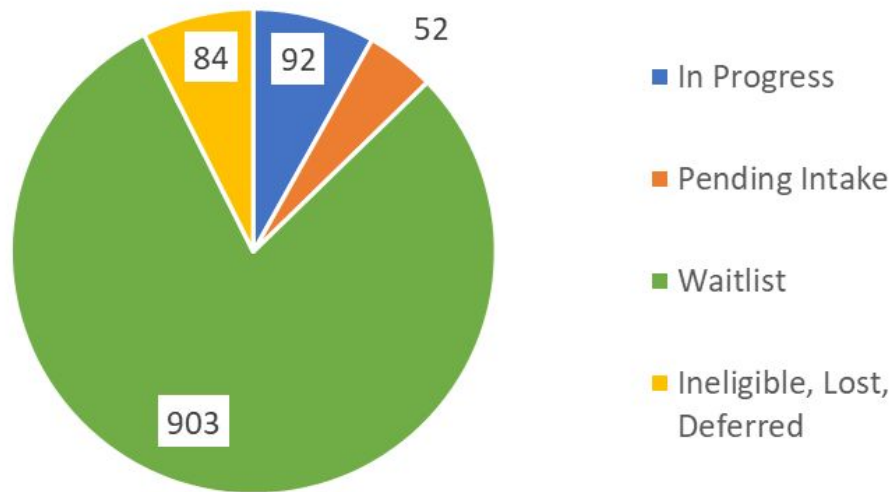
- Quadplex+ GESA RFP
 - Released October 2023
 - 14 buildings including City Hall, MSB, One Parkway and Health Centers
- Renewables for the City PPA RFP (next Adams Solar)
 - To be released in FY24 Q2/Q3
- PNE Solar re-procurement/RFP to follow
- Providing PWD with consulting support on existing maintenance agreement at NEWPCP and in evaluating RNG RFI responses for two of their WPCPs



School District of Philadelphia

- School Board authorized issuance of \$50MM green bond for GESA projects
 - GESA-1.4 (Fitzpatrick) = \$22MM
 - GESA-3 (Supplementing \$125MM project costs for 8 ARPA-funded projects) = \$28MM
- 23 GESA projects to date
 - Pilot = 3, GESA-1 = 9, GESA-2 = 3, GESA-3 = 8
 - Can authorize up to 20 each under GESA-1 and GESA-2 procurements

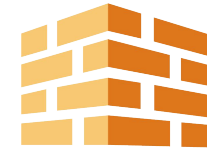
2023 Referrals (1131 total)



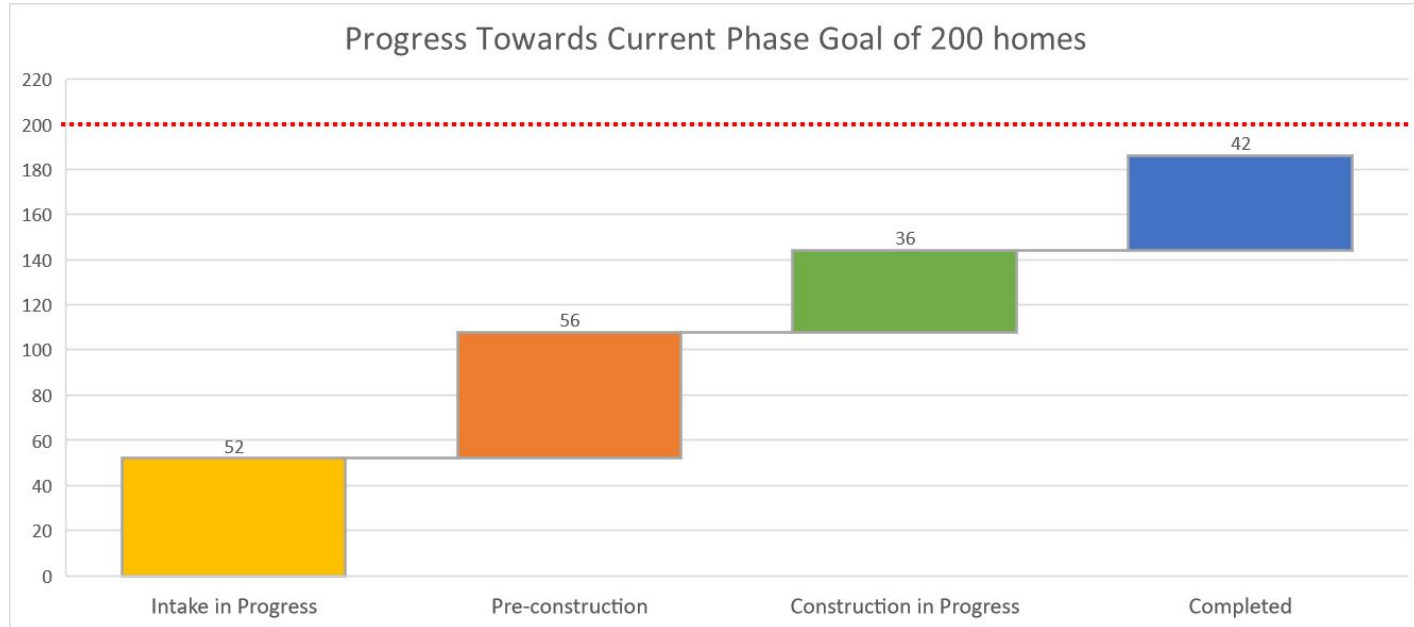
Q1 Highlights

- Onboarded a new services and construction management partner
- Began contract negotiations with an additional services partner
- Began new research projects with NEI and Three3
- Began surveys with control and treatment groups (via Penn)

Phase 2 Progress (186 projects)



BUILT
to **LAST**



2023 Construction Spending



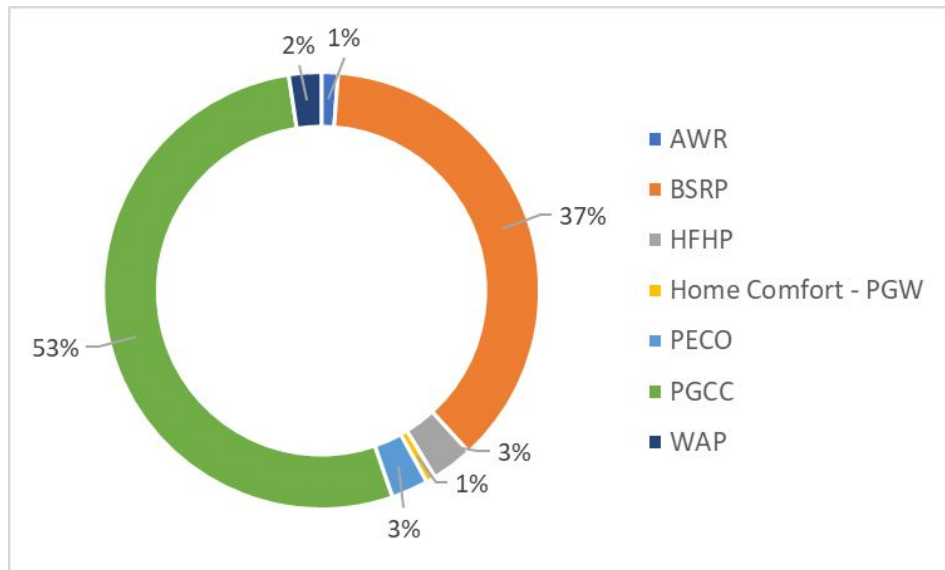
2.9 Average programs per home

\$33k Average spending per home

\$17k Average PEA spending per home

\$2.5m Total spending projected by all programs (excluding solar)

66 Solar installs in progress



Basic Systems



Electrification



Phase 7 (2023)



Phase 7 Goals

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

Phase 7 Contracts Signed

- **LMI Residential:** 727 (422% of goal)
- **Market Rate Residential:** 299 (60% of goal)



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 1-6

1,537

8.25 MW

\$27 MM

16,000

197

Phases 7
(2023)

1,026

5.4 MW

\$21 MM

6,000

110

RFP for Solar and Battery Storage Installation Vendors and RFI for Solar Financing Models



- 2024-25 with the option to renew for up to 3 years
- More focus on solar and storage
- Seeking innovative finance options
- 18 intents to bid, 9 respondents
- Selections to be announced on 11/17



ARE YOU A SOLAR INSTALLER LOOKING TO EXPAND YOUR FOOTPRINT IN PHILLY?



The Philadelphia Energy Authority (PEA) and Philadelphia Green Capital Corp (PGCC) are soliciting proposals from solar PV developers and installers that offer solar PV installation, storage, and/or financing options to Market-rate (MR) residential customers, Low- and moderate-income (LMI) residential customers, and/or Commercial customers.

Learn more at: tinyurl.com/SolarizePHLRFP

**Deadline to Submit Intent to Respond (required):
September 22, 2023**



**Summer Cooldown
Celebration in Hunting Park**



**5th Council District Senior Fair
PC: Jared Piper**



SOLAR WEEK

AUGUST 2023

Solar Week 2023 Sponsors



MONDAY 14	TUESDAY 15	WEDNESDAY 16	THURSDAY 17	FRIDAY 18
10-11am <i>Solar Week Kickoff Press Event: Celebrating the Clean Energy Workforce that Powers Solar Week</i> City Hall All Day <i>Spot Solar Across the City</i> <i>If you've already gone solar, share a photo with #SolarWeekPHL</i>	1-3pm <i>PECO Collaborative - Doing Solar Business in Philadelphia: Interconnection and Permitting Updates</i> Webinar <i>For solar installers and clean energy companies</i>	9:30-11am <i>Is Solar Right for My Commercial Property?</i> Webinar <i>For commercial property owners, developers, and financial professionals</i> 5:30-7pm <i>One Thing You Should Know About the Inflation Reduction Act: Panel and Networking Event</i> Yards Brewing Company <i>For anyone interested in learning about the future of clean energy</i>	3-7pm <i>PosiGen Solar Tour</i> 5100 Block of Sydenham Street <i>For anyone interested in going solar</i>	12:30-2pm <i>Residential Solar 101: Learn How to Go Solar at Home</i> Webinar <i>For anyone interested in going solar</i>

Register for events at
PhilaEnergy.org/event/solar-week-2023/



City Hall, Room 566
 215.686.4483
solarize@philaenergy.org



SOLAR WEEK 2023

Commercial Solarize

Is Solar Right for My Commercial Property?

Wednesday, August 16th | 9:30am - 11am
 Webinar | Register at PhilaEnergy.org/event/solar-week-2023/

Moderated by **Lisa Shulock**

Sponsored by: GPAEE, THE ENERGY CO-OP, edp, Superior Solar Design LLC, SOLAR STATES, PosiGen

Todd Baylson Business Development	Rishika Ghosh Senior Associate	Taylor Page Senior Business Development Associate	Jared Pashko Residential & Commercial Sales Manager

SOLAR WEEK 2023

Panel & Networking Event

One Thing You Should Know About the IRA

Wednesday, August 16th | 5:30pm - 7pm
 Yards Brewing Company
 Register at PhilaEnergy.org/event/solar-week-2023/

Sponsored by: GPAEE, THE ENERGY CO-OP, edp, Superior Solar Design LLC, SOLAR STATES, PosiGen

Moderated by **Katie Bartolotta**
 Vice President, Policy and Strategic Partnerships

Julian Burnett Community Marketing Manager	Zach Greene Clean Energy Manager	Devi Ramkissoon Executive Director

PHILADELPHIA ENERGY AUTHORITY, PHILADELPHIA GREEN CAPITAL CORP., WORLD RESOURCES INSTITUTE, sbn









American Water Resources Partnership

- 90K customers in flagship Water and Sewer Line Protection Program
- 29K+ enrolled in new protection products
- \$58MM+ saved in repair costs for consumers
- 75% of claims to date serviced by M/W/DBE contractors
- 7%* of all claims had an NOD from PWD
- majority of infrastructure repairs are self-identified
- 3,200/month calls handled, 90% Customer Satisfaction

Frankford High School Updates

- Open for 2023-2024 School Year
- New Career Exploration class an elective for 10th graders - used as recruitment tool for BSF
- BSF CTE classes now open to 11th & 12th grade students only
- Industry professional coach provides instruction support 3 times a week
- Additional case management services and life skills development training

Current BSF CTE Numbers

- 12 students (11 juniors, 1 senior)
- 7 of the 12 returning from BSF 2023 Summer Program





BSF Solar Summer Program

Four-Week Summer Enrichment Program running July 10-August 4, 2023

- 30 students received industry-related training 2x/week and life skills training 3x/week
- Four industry-related field trips
- Two guest speakers (life skills training)
- All 30 students successfully completed the program
- Closing ceremony held at Temple University in August 2023

Thanks to our committed partners:

- ECA, FAVOR, Ride to Work, Solar States, Temple University



Closing Ceremony for 2023 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-weeks (includes 6-week internship)
- 3 Cohorts executed - 53 participants completed
- 80% placed into jobs, post-internship completion
- Average Wage: \$18.76 per/hr
- Ongoing placement and follow-up services through December 2023
- 3rd cohort - April-August 2023
- New partnerships:
 - Ride to Work (RTW)
 - Episcopal Community Services (ECS)
- Funded by the EDA thru Good Jobs Challenge and other funders



C-PACE Program

- Closed 4th multifamily project in Q1 (\$7.5MM)
- Since 2020
 - PA (not Philly) = 10 projects in 4 counties total; \$54MM
 - Philly = 15 projects; \$166MM



First C-PACE conference in Philly held at Drexel U. LeBow College of Business co-hosted by PEA. Emily Schapira and LeBow's Dean Vibhas Madan made introductory remarks. Over 75 people attended.

New Construction: Liberty Square Phase III

Property Type: Multifamily

Financing Amount: \$7,500,000

Rate and Term: 7.88%, 29 years

Close Date: 8/23/2023

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

Environmental Impact: 23% more efficient
than required by Philadelphia's building
energy code; reduction of the building's total
lifetime carbon footprint by 3,632 metric tons
of CO2 equivalent

Neighborhood: Northern Liberties



Property Owner: Palladium Group



Capital Provider: Nuveen Green Capital



Qualified Engineer: Pennoni

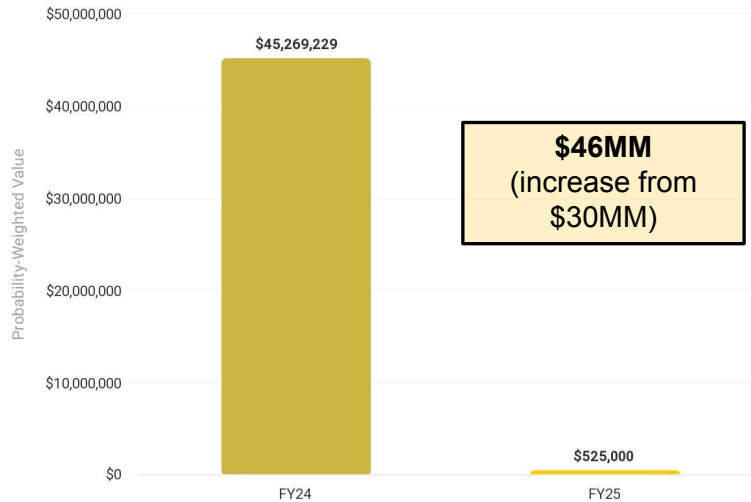
Energy Savings

- Modeled energy savings above IECC 2018 ranges from 19 – 34%
- Average = 27%
- Significantly higher than expected

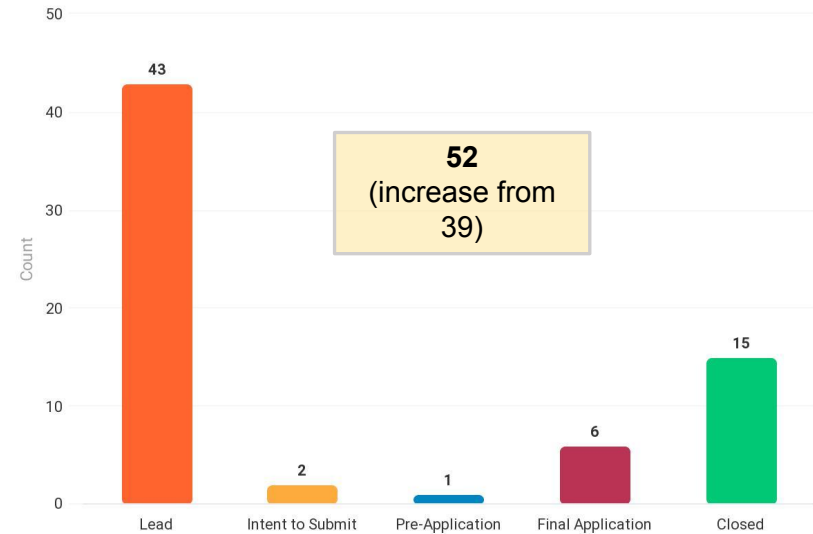
Project Name	% Energy Savings Above Code
Ridge Storage	34%
Cold Storage	30%
Somerset Station	26%
5th and Spring Garden	30%
Bromley Loom House	19%
Liberty Square	23%

C-PACE Pipeline Update

Probability Weighted Average of Pipeline
As of September 30, 2023



Projects in Pipeline by Stage
As of September 30, 2023





Greenhouse Gas Reduction Fund Update

GGRF

Solar For All
\$7B

Applied with PA Energy
Development Authority
for \$250MM (Oct. 2023)

Clean Communities
Investment Accelerator
\$6B

Will seek \$11MM from
EPA's awardee(s) to
capitalize PGCC and
form CDFI partnerships

National Clean
Investment Fund \$14B

Supported multiple
national applications

Will seek significant
funding from EPA's
awardee(s)

Funds expected to become available in 2H 2024



Funding Sources / Potential Lines of Growth

Source	Description
Greenhouse Gas Reduction Fund	(see previous slide)
Whole Home Repair Act (PA)	\$50MM proposal in continuing FY24 state budget negotiations
Climate Pollution Reduction Grants	With PEA, supporting DVRPC's planning grant as PA working group participant, which lays the groundwork for us to apply for \$2-500MM of implementation grants from the EPA (NOFO out today!)
NREL Clean Energy to Communities	DVRPC won award – PEA/PGCC are unfunded partners and PECO is a funded partner. They will work with DVRPC to evaluate priority electrification projects in LIDACs.

Contact

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