

Board Update – Q2 FY23

February 8, 2023

Emily Schapira, President & CEO

FY23 Q2 Program Updates

MUNICIPAL **PROJECTS**

- LED Streetlighting audit complete, in final analysis and fixture selection
- PNE solar interconnection process and contracting ongoing
- Adams Solar construction has begun
- PWD RNG RFI released

K-12 **SCHOOLS**

- Ongoing construction for GESA 1-3. Waiting on scope approval for GESA 1.4.
- Working with SDP to support energy master plan, EV conversion plan and **BIL/IRA** opportunities



- Solarize Philly passes 1300 homes
- Over 150 LMI leases via Posigen so far
- BTL wrapping 50-home pilot, planning for Phase 2. \$1.5MM invested to date

SMALL BUSINESS & COMMERCIAL



- C-PACE expanded Program Guidelines released, reached \$100MM milestone
- Virtual Power Plant RFI released. evaluation and follow up now

OTHER NEWS

- Planning for Good Jobs Challenge underway
- Whole Home Repair guidelines and app expected November 2022
- IRA Planning with OOS
- Revisiting PWD opportunities

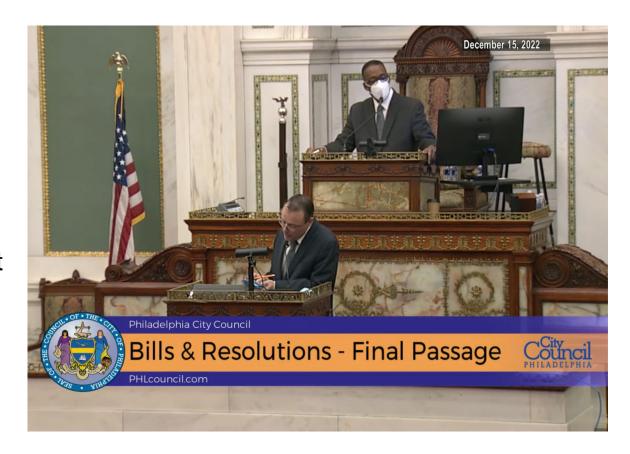


Organizational Updates

- Alexis Lounsbury hired as Administrative Coordinator
- Consultant Lisa Shulock brought on as Director of Commercial Programs
- Recruiting for a Workforce Development Coordinator
- Recruitment and selection ongoing for summer interns and Kleinman Fellow

Policy Updates

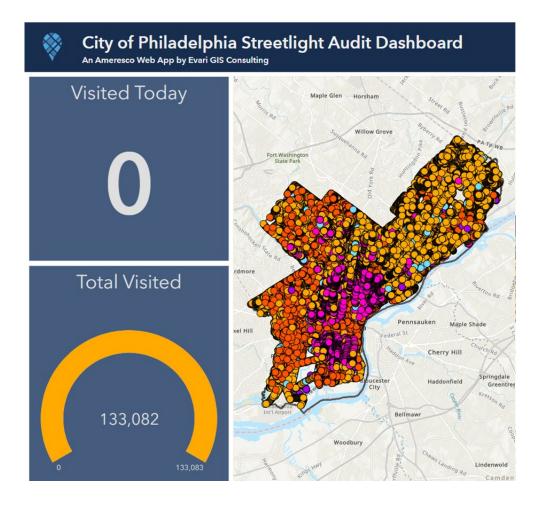
- OOS and PEA received a combined \$300k in mid-year transfer to lead the City's Inflation Reduction Act strategy
 - PEA investing in technical assistance to best prioritize, sequence, and blend the different types of funding streams available in the IRA
 - OOS investing in strategic planning support
- City Council passed <u>Resolution No. 220976</u> approving PHDC as City's lead applicant for Whole Home Repair Program
 - PEA named as key implementation partner through Built to Last
 - Submitted proposal to DCED with \$7.7MM for BTL and \$1.3MM for workforce development



Municipal Energy Projects

LED Streetlighting

- Field audit complete >>
- Luminaire and lighting management system vendor RFPs released
- Meetings with public health and public safety stakeholders
- On track for completion of investment grade audit in February, start of construction in Spring 2023 following bond issuance



Municipal Energy Projects

PNE Solar

- Negotiating contract with Solaer USA for 1.5MW project
 - Costs of materials and financing impacting project economics
- Continuing to scope interconnection requirements with PECO

PWD RNG RFI

 PEA released <u>RFI for Renewable Natural Gas (RNG) Development</u> at City of Philadelphia Wastewater Pollution Control Plants on behalf of PWD in January 2023









Municipal Energy Projects

Adams Solar

- Energix began civil work, construction entrances, and erosion control measures in December 2022
- Roads and laydown areas on one of the larger parcels and grading work started in January 2023
- Vendors sought for <u>mechanical installation</u> and <u>fencing</u>

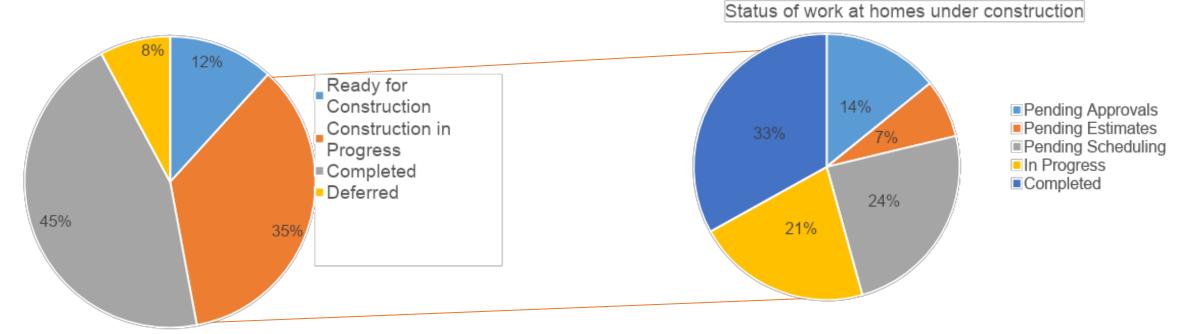
School District of Philadelphia



- Hiring Coordinator, Energy Conservation Programs
- New Director of Capital Programs starting Q3 2023
- University of Pennsylvania sent letter of support for solar schools to Superintendent Watlington using data from PEA's technical reports
- Former SDP CFO Uri Monson is new PA Budget Secretary, former SDP COO Reggie McNeil is new Secretary of DGS

Built to Last Pilot

Status of Pilot Homes



^{* 2} deferred for incomplete paperwork; 2 deferred for lack of response

Pilot Spending by Partner

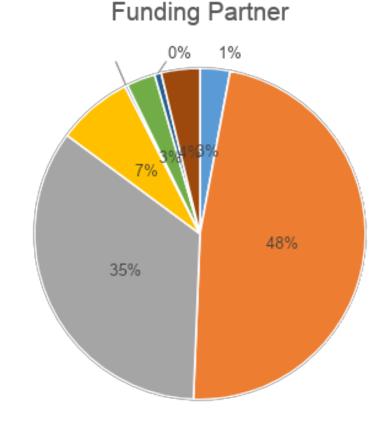
3 4 Average programs per home

\$44k Average spending per home

\$14k Average PEA spending per home

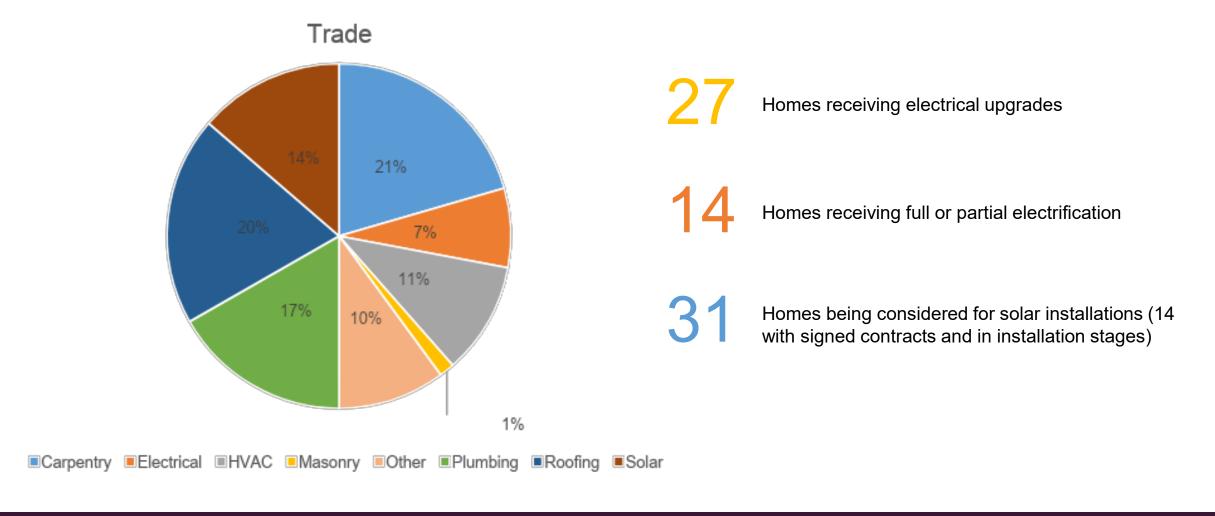
\$2.1m

Total spending projected by all programs (including solar)



■BSRP ■BTL - PEA ■HFHP ■Home Comfort - PGW ■PECO ■SHARP ■WAP

Pilot Spending by Work Type



Phase 5+6 (Sept 2021-Dec 2022)



- Introduced a solar lease option with PosiGen, no up-front cost, 3rd 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)
 - 85 commercial projects in pipeline

Phase 5&6 Contracts Signed

LMI Residential: 167

Market Rate Residential: 362



Phase 7 (2023)



 New Phase enrollment started in January 2023

Phase 7 Goals

• LMI Residential: 250 homes

Market Rate Residential: 500 homes



Progress to Date (Residential)



| | | | Z.S. | | |
|----------------|------------------------------|------------------------------|--|-------------------------|---------------------|
| | 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 and 6 | 529 | 3.1 MW | \$11+ million | 14,000+ | ~72 |



Join us at tomorrow, 10/27 12-1pm, to learn more about Solarize Philly with Penn Sustainability and The Kleinman Center for Energy Policy.

Register here: https://www.eventbrite.com/.../staff-faculty-eco-reps...



GO SOLAR AT HOME

Join the Staff & Faculty Eco-Reps and its partners to learn more about what resources are available to transition your home to solar energy.

OCTOBER 27, 2022 HYBRID: KLEINMAN ENERGY FORUM AND VIRTUAL 12 P.M.-1 P.M.

REGISTER AT: bit.ly/SFEcoRepsEventbrite

Organized by:

Kleinman Center for Energy Policy











NATIONAL SOLAR TOUR

SUSTAINABLE FEATURES COLOR KEY

OFF-GRID ELECTRIC VEHICLES

SOLAR PHOTOVOLTAIC (PV) SUSTAINABLE LIVING

WATER HARVESTING & CONSERVATION MECHANICAL HEATING & COOLING

NON-SOLAR ELECTRICITY GENERATION

« All Events

Residential Solar 101: Learn How to Go Solar at Home

October 1 @ 12:00 am -11:59 pm - January 15, 2023 @ 12:00 am-11:59 pm



Tune into WURD Radio's The Source with Andrea Lawful Sanders tomorrow at 3:30pm to learn about Solarize Philly! We'll be joined by our installer partners, PosiGen, Superior Solar Design, and Solar States.

Listen online at wurdradio.com or 96.1FM/900AM





Learn How to Go Solar at Home! on WURD Radio's The Source with Andrea Lawful Sanders

> Tuesday, November 1st, 3:30-4pm Live on WURD Radio: 96.1FM/900AM







Program Manager



Julian Burnett Community Marketing



Tonya Davis Co-owner/operator



Doug Davis Co-owner/operator



Jackson Kusiak Solar Designer & **Community Solarize** Organizer

















American Water Resources Partnership

- ~90K customers in flagship Water and Sewer Line Protection Program
- 20K+ enrolled in new protection products
- \$45MM+ saved in repair costs for consumers
- 74% of claims to date serviced by M/W/DBE contractors
- In FY23 Q2, 5% of all claims and 18% of repair claims had an NOD from PWD majority of infrastructure repairs are selfidentified
- 5,400/month calls handled, 93% Customer Satisfaction

C-PACE Program

- Closed largest C-PACE deal in PA in November @ \$30.08MM
- Total Philly C-PACE deals totaled \$100MM at end of 2022
- Challenging market: Interest rate hikes have both sunk many development projects and made C-PACE more attractive

FreezPak Logistics (2201 E. Allegheny Ave)

PROJECT OVERVIEW

Property Type: Cold Storage/Warehouse

Financing Amount: \$30,083,709

Rate and Term: 6.67%, 30 years

Date: 11/30/2022

Building Measures: Envelope, HVAC,

Lighting, DHW

Environmental Impact: 30% more energy efficient than required by Philadelphia's building energy code; reduction of the building's total lifetime carbon footprint by 27,849 metric tons of CO2 equivalent



Property Owner:
BGFP Philadelphia LLC

Capital Provider: Nuveen Green Capital



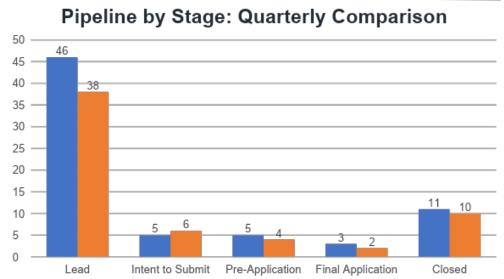
- \$30MM C-PACE financing to cover 76% of hard and soft costs of the energy and water efficiency improvements to the building
- The project includes energy efficient walls and glass, interior and exterior LED lighting, variable volume air handlers, freezer evaporators, domestic water heater, and exhaust fans
- Energy savings calculations based on improvements above IECC-2018, Phila.'s energy code baseline and percentage of qualified project financed with C-PACE



C-PACE Pipeline Update

- 56 projects in pipeline (+12% from last quarter)
- Probability-weighted average value of pipeline is ~\$48 MM (down from last quarter due to close of \$30MM deal)
- Several projects expressed intent to close in Q3





Virtual Power Plant (VPP)

- Request for Information (RFI) released on October 13, 2022
- 11 responses received on December 19, 2022 from:
 - International clean energy providers (solar developers, wholesale generators & retail energy providers)
 - Leading VPP software providers
 - Major hardware installers (e.g., battery storage)
- PEA staff and key reviewers are currently reviewing RFIs
- Responses will shape PEA's VPP program design and aid development of RFP
- Key reviewers include PECO, DEP, Penn State, WRI and others



Frankford High School Updates

Major Support

PECO-Funded Solar Instructor Coach FY 22-23, Ky Sanders

Impact

- 15 10th Graders started in the fall of 2022
- First year of graduating 12th graders.
- Focus on internships, summer programming and ongoing recruitment



Bright Solar Futures Program (OppY)

- Partnership w/ PowerCorpsPHL
- Cohort 4: January 17, 2023, 13 for training + 6-week internships
- Testing out a reduced curriculum focused on solar and electrical
- Adams Solar Residency for commercial training experience upcoming in Spring 2023

Total Results so far:

- 3 Cohorts: 47 participants enrolled, 28 Completed (60%)
- 24 Students were placed into paid internships (86%)
- 10 NABCEP Associates Certifications, 14 OSHA-30s
- 21 Placements to date (Jobs/Apprenticeship/OJTs) (75%)





Green Retrofit Immersive Training (GRIT)

2022 Cohort (May-Sept 2022):

- 12 weeks in the lab at ECA, 6 weeks field internship with PVTC
- Generously funded by City Commerce Dept & William Penn Foundation

Key Stats:

- 20 enrolled
- Graduated: 16 completed (80%)
- Placements: 10 placements (62%)
- Completed Internships: 16 (100%)
- Industry-specific interviews: 16 (100%)
- Ongoing placement and follow-up services through June 2023











PGCC Operational Update

Financial:

- National Green Bank formation—participating in RFP process through Coalition for Green Capital
- Working with PEA on final negotiations with DOE for \$2.0MM for Built to Last
- FY21 and FY22 audits are underway

Programs:

- 3 Navigator & Catalyst applications in the intake process
 — \$3.15M in total, 128 units + nonprofit community space
- Share the Sun has funded solar installations for 17 LMI homes
- Supporting PEA's launch of Phase 2 of Built to Last

Contact

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