

# Driving Energy Efficiency & Clean Energy in Philadelphia

PEA Overview July 15, 2019

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## "The Poorest Big City in America"

- 1.6M residents, population increasing, 6<sup>th</sup> largest city in US
- 26% live below the poverty line, incl.
  1 in 3 children
- Real estate boom, thriving downtown and inner ring neighborhoods
- 4.6% unemployment citywide, unemployment among African-Americans historically 2x the city average



## Philadelphia's Energy Issues

- Residents below 30% AMI pay 23% of their income to utilities
- >50% of African-American households at any income level faced energy insecurity at least once last year
- >40% renters faced energy insecurity last year
- Corner stores pay more for utilities than rent



## energy as a tool for impact

### development

Projects that move the needle on carbon reduction are bringing established companies, investors and entrepreneurs to the city.

### jobs

Statewide, the number of clean energy jobs already outpaces the number of fossil fuel jobs.

### poverty

Reducing the energy burden for Philadelphians means homes that are safe, warm, healthy and affordable for the long term.

### public health

In public buildings, schools, homes and businesses, clean and efficient energy is a vehicle for improving the health of our communities.



## The Philadelphia Energy Campaign

- \$1 billion investment over 10 years in energy efficiency and clean energy projects, leveraging public and private dollars
  - <u>10,000 jobs</u>
  - 25,000 households
  - 2,500 small businesses
- Results from first 2 years:
  - \$101 million in active projects
  - 984 total jobs
- Often self-funding projects



## City Energy Projects

#### **Philadelphia Museum of Art**

- JCI EPC, under construction
- Largest City energy user (\$3M/yr), 24% energy savings

#### **Major Projects pipeline**

LED Streetlighting, Prisons Complex

#### **Energy Master Plan & City Climate Commitments**

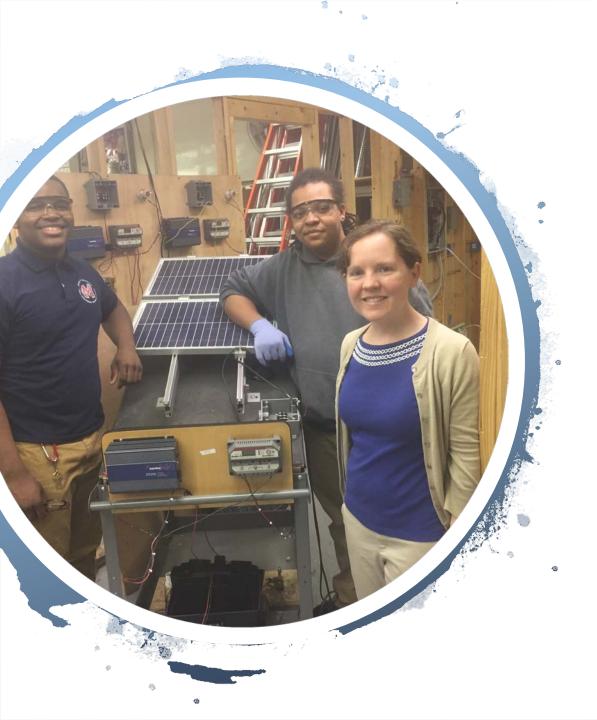
- 100% renewable electricity by 2030
- 80% carbon reduction by 2050



# Adams Solar, PA's largest solar array

- 70 MW Solar PV project in Adams County, PA (to be built), ~700 acres
- Developed by Community Energy
- 20-Year Contract, fixed price electricity and other attributes
- Cost of approximately \$6 Million annually (budget neutral)
- Project will provide 22% of city government electricity use
- Will provide training opportunities for at least
   15 Opportunity Youth trainees





#### **School District**

#### • SDP EPC – Pilot

- 3 high schools, \$23M, major capital work (incl. boilers, windows)
- 20% savings, currently under construction

#### SDP EPC – GESA 1

• 20 schools, in contracting now, awarded to Johnson Controls

#### SDP Solar Schools Assessment

- Sponsored by PECO
- Pricing and engineering evaluation for rooftop (and 1 ground mount) PPA
- Preparing 4-school pilot, targeting Fall 2019 for RFP



**A CITYWIDE PROGRAM TO HELP ALL PHILADELPHIANS** 

## **GO SOLAR** ATHOME

SIGN UP BY SEPTEMBER 30 at solarizephilly.org







## 2 Solarize Rounds, Largest in the U.S.



Contracts Signed as of Today

363



Contracted Solar Capacity

1.6 MW



\$ Invested in Philly's Clean Energy Economy





Households Signed up

4,237



**Direct Jobs Created** 

52

## Bright Solar Futures: \$1.25M DOE Award

#### 3-year Program of Study in Clean Energy

- High school vocational students
- Clean energy curriculum (1,080 hrs)
- Available to other Districts in PA once approved by PA Dept of Education

#### **New program for Opportunity Youth**

- Partnering with YouthBuild Philly
- Parallel track
- Employment-ready
- Condensed curriculum (600 hrs)



**ENERGY** 

Trump administration awards Philly \$1.25M solar workforce grant

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Multi-Family Affordable Housing Pilot

- Pilot 1 delivering comprehensive building retrofit with >30% energy savings over 2 phases
- 4 properties, 197 units, all low-income:
  - Phase 1 completed December 2017 and produced 15-30% savings
  - Smart thermostats, boiler controls, lighting, low-hanging fruit measures
- Pilot 2 using more traditional ESCO model and single phase, no up-front audit cost, leveraging utility programs























# Water and Sewer Line Protection Program

- 65,000+ customers
- \$1.8M+ in avoided consumer cost
- 76% of claims to date serviced by M/W/DBE contractors
- Less than 7% of claims had a PWD NOD
- Projected to save PWD >\$400k annually



## Contact

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