

#GreenworksPHL



# GREENWORKS

A VISION FOR A SUSTAINABLE PHILADELPHIA

Powering Our Future

Briefing for Sierra Club Southern PA Group

January 16, 2018



# GREENWORKS

A VISION FOR A SUSTAINABLE PHILADELPHIA

CITY OF PHILADELPHIA  
OFFICE OF SUSTAINABILITY

MAYOR JIM KENNEY



[www.phila.gov/green](http://www.phila.gov/green)



@GreenworksPhila



Philadelphia's Office of Sustainability



## City of Philadelphia Climate Commitments

- Meet requirements of Paris Climate Agreement (reduce carbon emissions 26-28% by 2025)
- Meet global standard for long-term carbon reductions (reduce carbon emissions 80% by 2050)
- Meet pledge of Mayors for Clean Energy (transition Philadelphia to 100% clean energy)

**WE ARE STILL IN**





## Philadelphia's Carbon Footprint

Buildings and Industry: 79% of carbon emissions



Transportation: 17% of carbon emissions



Waste: 3% of carbon emissions

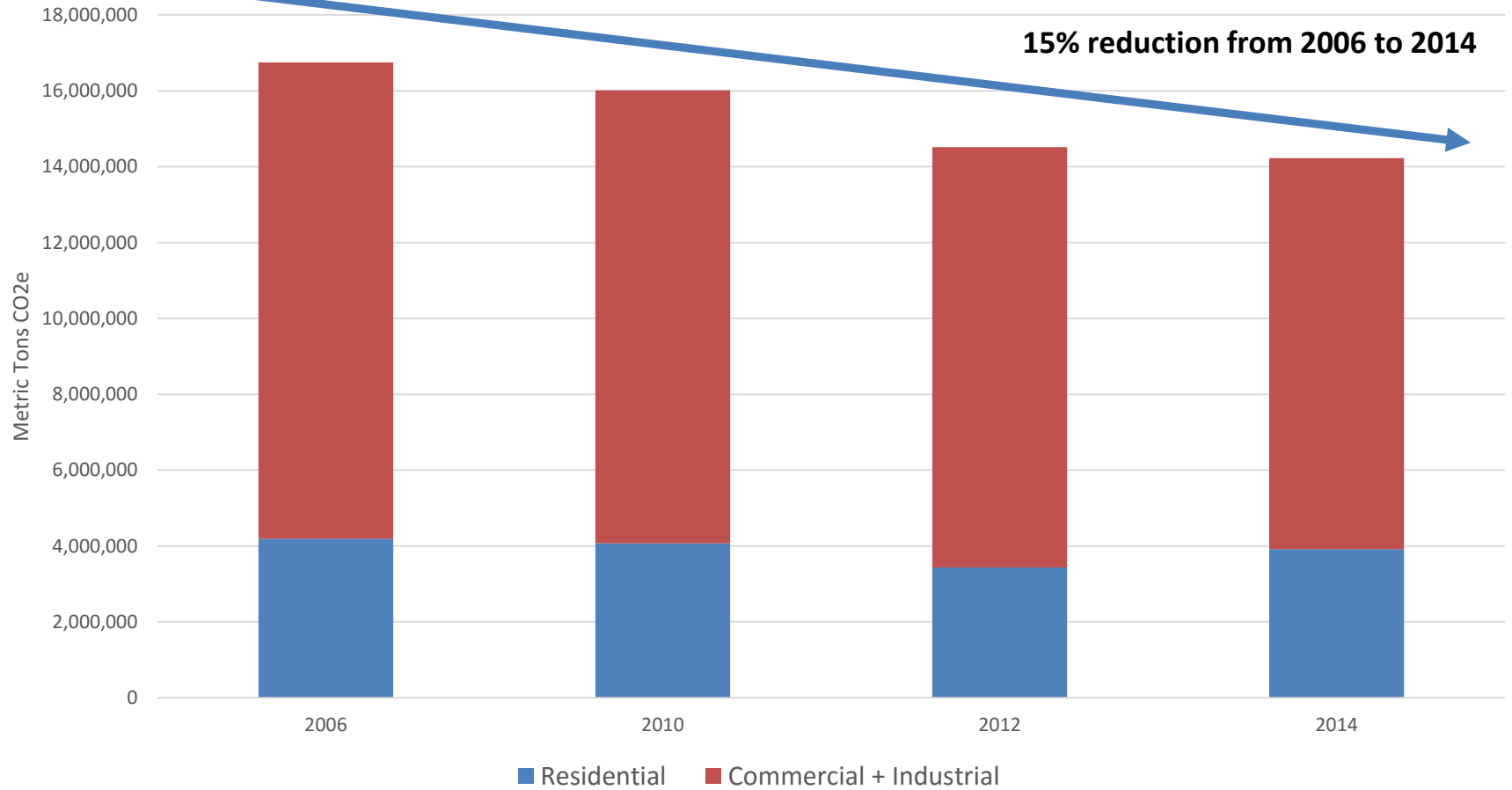


= 5% of carbon emissions



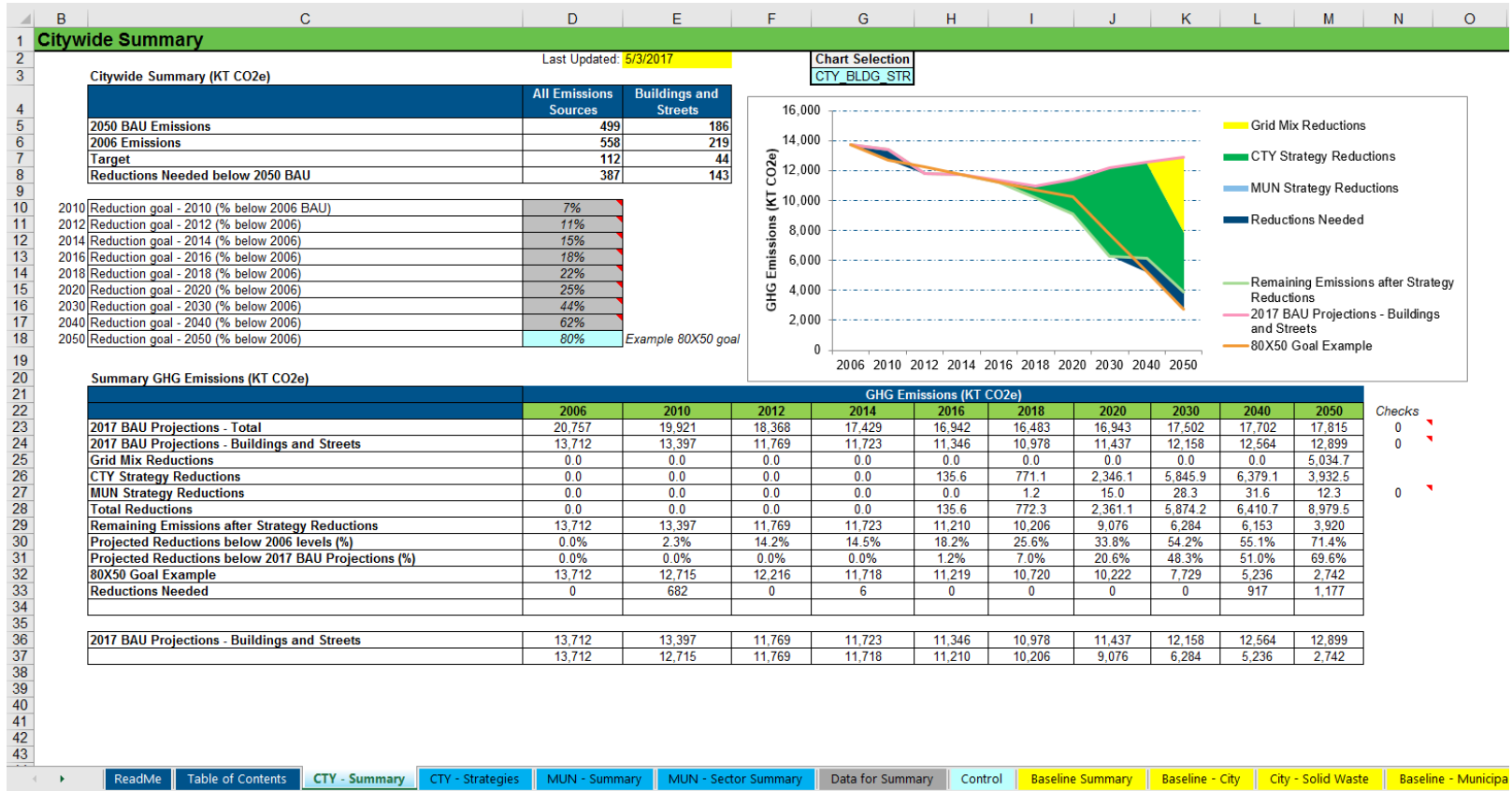


## Citywide Building and Industry Carbon 2006-2014





# Philadelphia Energy and Carbon Modeling





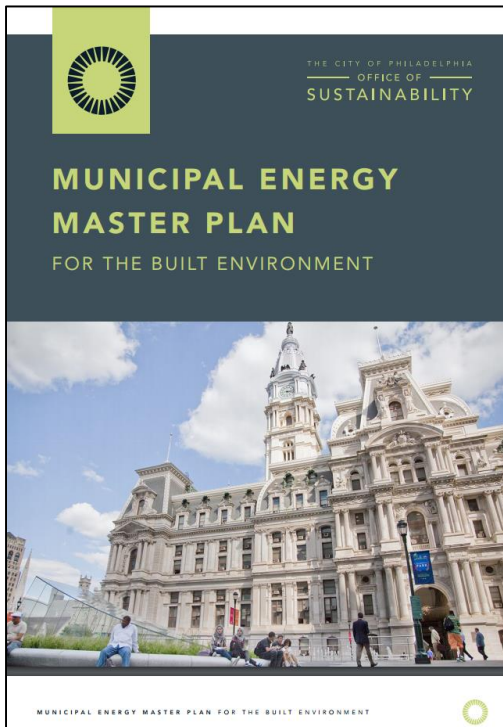
## Recurring Themes from Public Engagement

- **Engagement Process**
  - How to bring more residents into conversation
- **Industrial Emissions**
  - Role of refinery and other large emitters
- **Co-Benefits**
  - Importance of health, air quality, jobs, and education





## Philadelphia Energy Planning



Released September 2017



Public Comment Period  
November 2017 – January 2018







## Powering Our Future: Core Values



**Clean**



**Efficient**



**Resilient**



**Affordable**

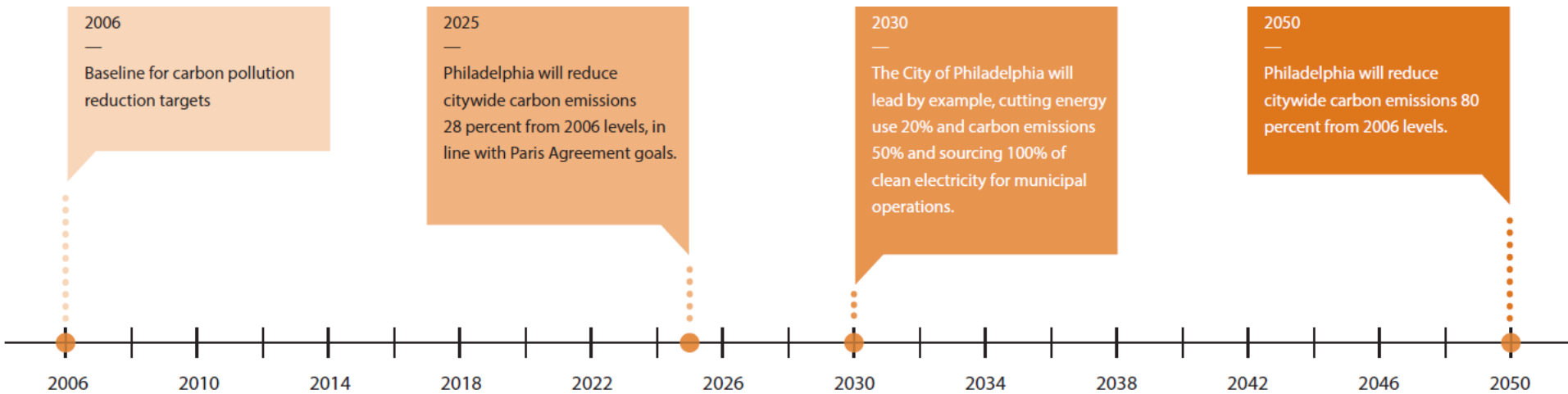


**Equitable**





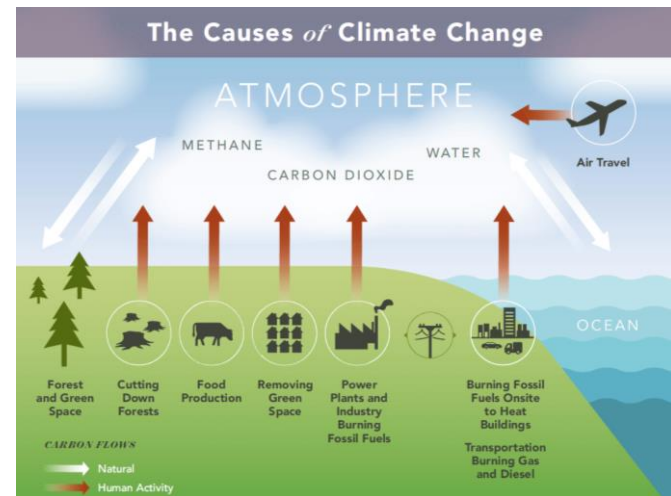
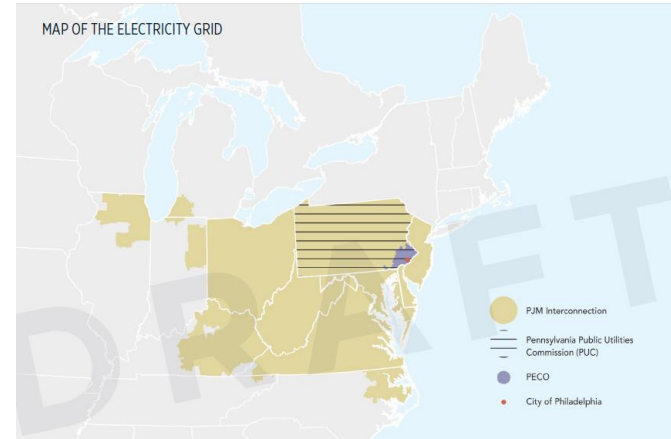
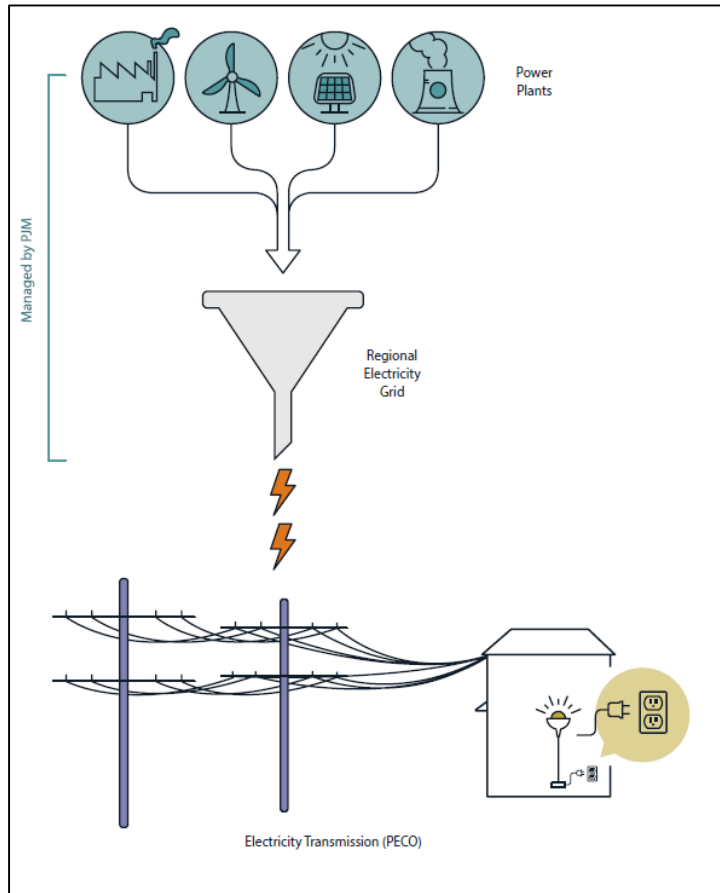
## Philadelphia Carbon Pollution Reduction Goals





## Educating Philadelphians about Our Energy System

### HOW PHILADELPHIA HOMES AND BUSINESSES GET ELECTRICITY





## Powering Our Future: How We'll Get There



Clean Electricity Supply

Citywide Solar

Energy-Efficient Homes and Businesses

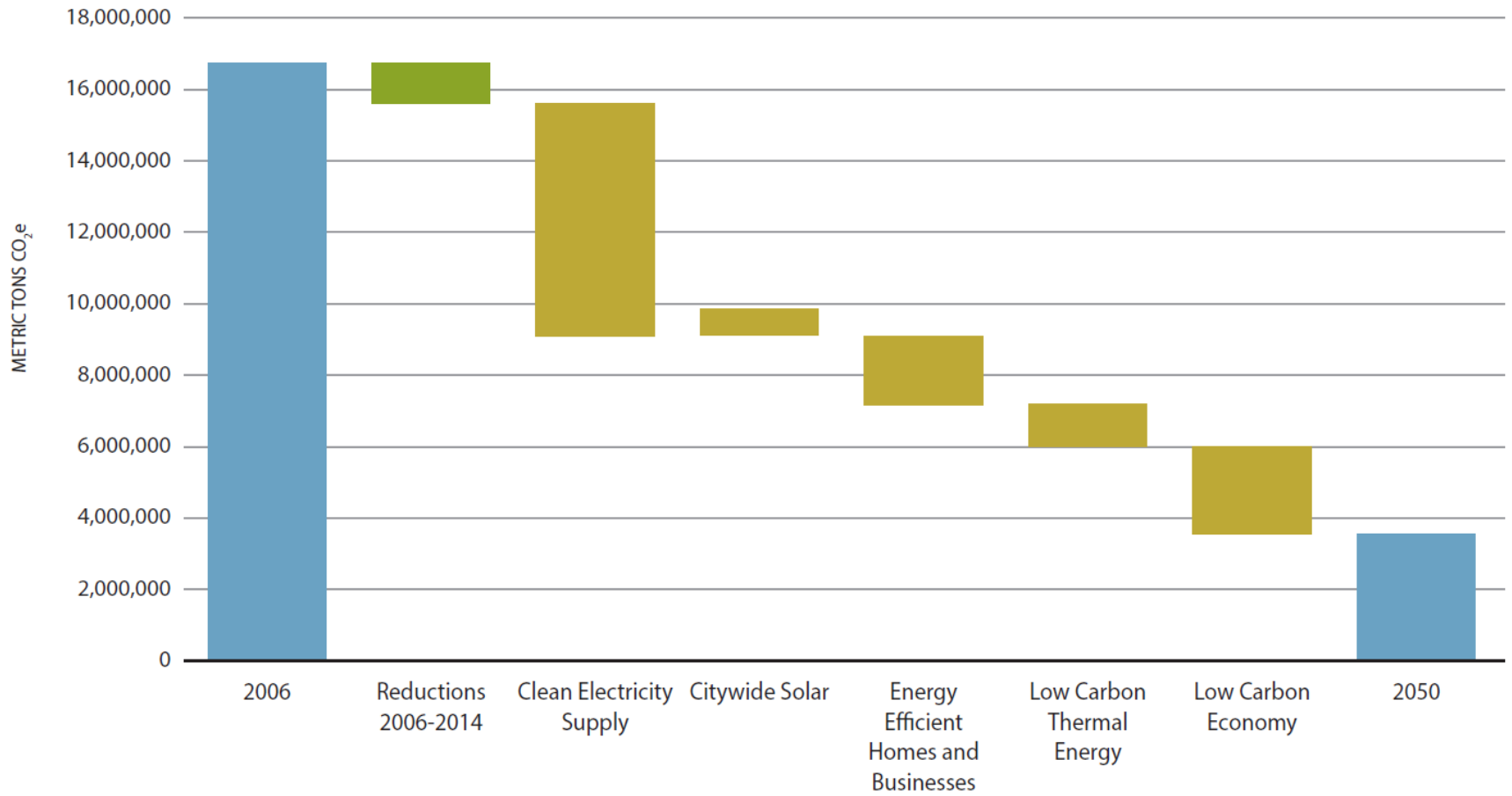
Low-Carbon Thermal Energy

Low-Carbon Economy





## Potential to Reduce Carbon Pollution in Philadelphia's Built Environment





## Powering Our Future Playbook

- 1) Clean Electricity Supply →
- 2) Citywide Solar
- 3) Energy-Efficient Homes and Businesses
- 4) Low-Carbon Thermal Energy
- 5) Low-Carbon Economy

## Example Playbook Actions

City: Lead effort for large-scale municipal and institutional renewable investment

Residents and Businesses: Choose local renewable energy through [PAPowerSwitch.com](http://PAPowerSwitch.com)

State and Federal: Protect and strengthen Clean Power Plan from proposed rollback





## Powering Our Future: Next Steps

- **Public Comment Period**
  - Open through January 31<sup>st</sup>, 2018
- **City Government Leading by Example**
  - Art Museum and Renewable Energy PPA
- **Further Engagement to Identify Next Steps**
  - Collaborate with communities, institutions, and issue experts



THE CITY OF PHILADELPHIA  
— OFFICE OF —  
SUSTAINABILITY

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