



**Mayor's Goal 4: "Philadelphia becomes the greenest and most sustainable city in America"**

**Topic: Sustainability in the City of Philadelphia**

**Key Presenters: Mayor's Office of Sustainability**

**Adam Agalloco, Alex Dews, Katherine Gajewski, and Sarah Wu**

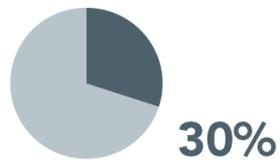
**Date: September 25<sup>th</sup>, 2014**



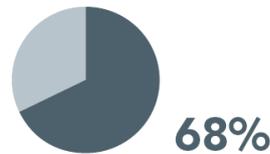
## Executive Summary

### Major Accomplishments:

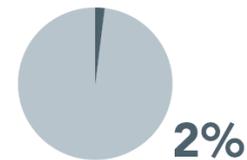
- Work on 160 of 164 initiatives is underway or completed.
- Continue to exceed solid waste diversion goal.
- City Council passed legislation to make the Office of Sustainability permanent within City government.



49 Complete Initiatives



111 Initiatives in Progress



4 Future Initiatives



THE CITY OF PHILADELPHIA

MAYOR'S OFFICE OF  
SUSTAINABILITY

SUSTAINABILITY

## Who We Are

- Mission
- Scope of Services
- Budget



# Mission: Make Philadelphia the greenest city in America

## Energy

PHILADELPHIA REDUCES ITS VULNERABILITY TO RISING ENERGY PRICES



## Environment

PHILADELPHIA REDUCES ITS ENVIRONMENTAL FOOTPRINT



## Equity

PHILADELPHIA DELIVERS MORE EQUITABLE ACCESS TO HEALTHY NEIGHBORHOODS



## Economy

PHILADELPHIA CREATES A COMPETITIVE ADVANTAGE FROM SUSTAINABILITY



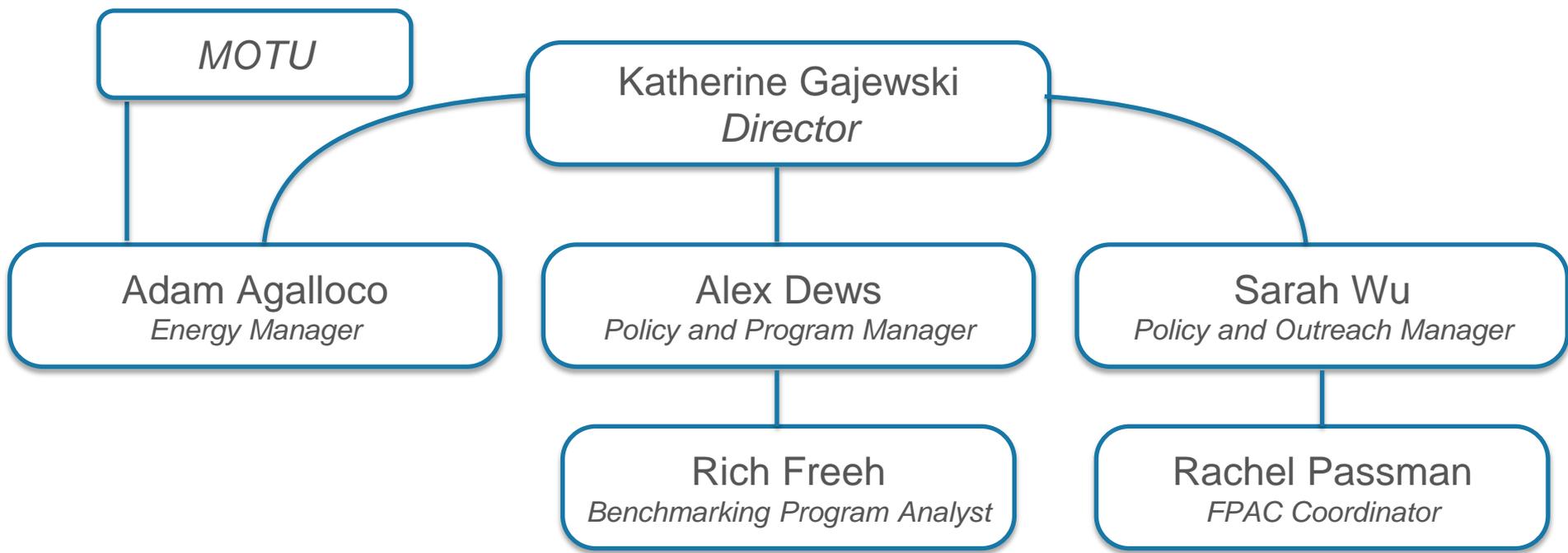
## Engagement

PHILADELPHIANS UNITE TO BUILD A SUSTAINABLE FUTURE



*5 goals, 15 targets, over 150 initiatives*

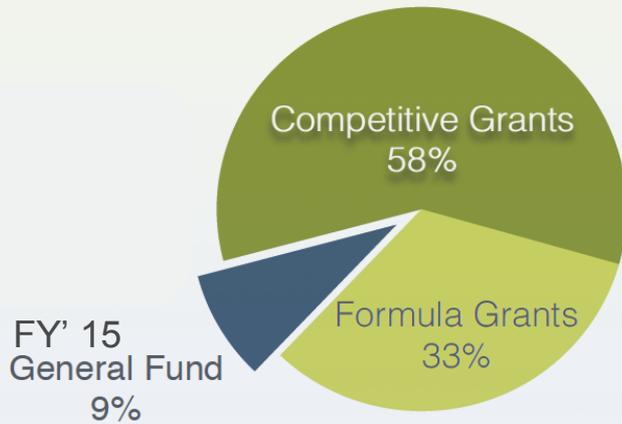
# Mayor's Office of Sustainability Organizational Chart





# Budget

Grants to date vs. FY '15 General Fund



## Selected Grants

Source	Amount
U.S. Dept. of Energy ARRA-funded	\$40,000,000
William Penn Foundation	\$500,000
City Energy Project	\$420,000
Living Cities Foundation	\$100,000
Knight Foundation	\$50,000



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## What We Do

- Performance Targets
- Program Implementation
- Planning



Who we are

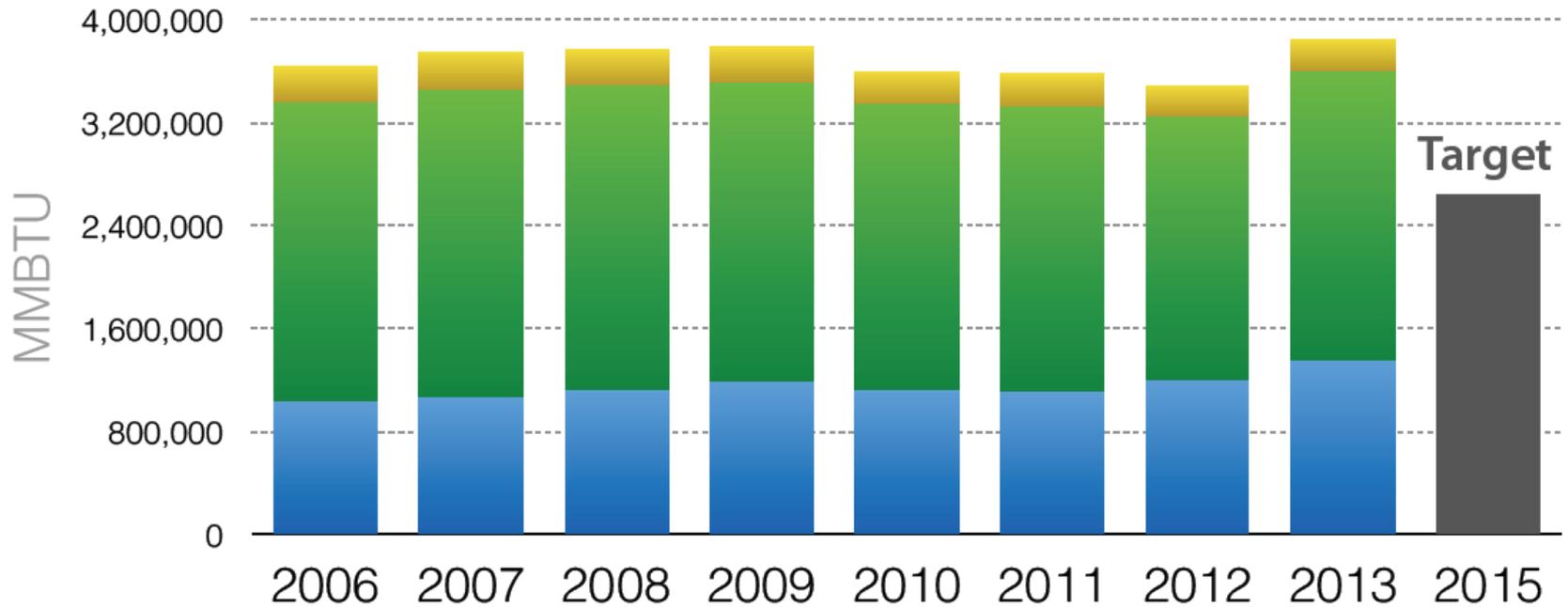
What we do

What's on the horizon



# Performance Measure 1: Municipal Energy Consumption

Lower City Government Energy Consumption by 30%



Water Fund

General Fund

Street Lighting



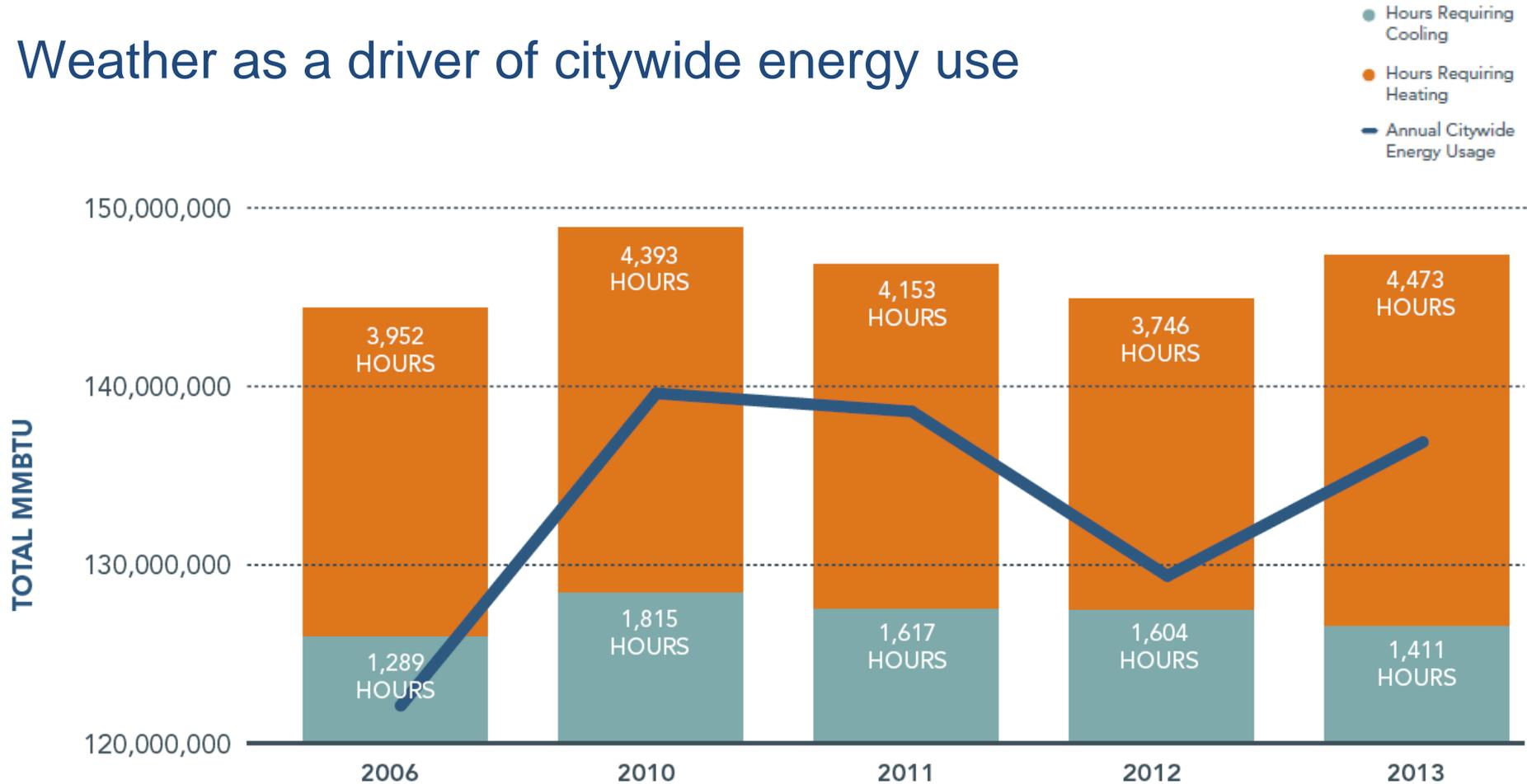
Example of reduction in energy usage at City Hall Clock Tower



Replacing 584 fluorescent tubes with LEDs will save \$40,000 annually

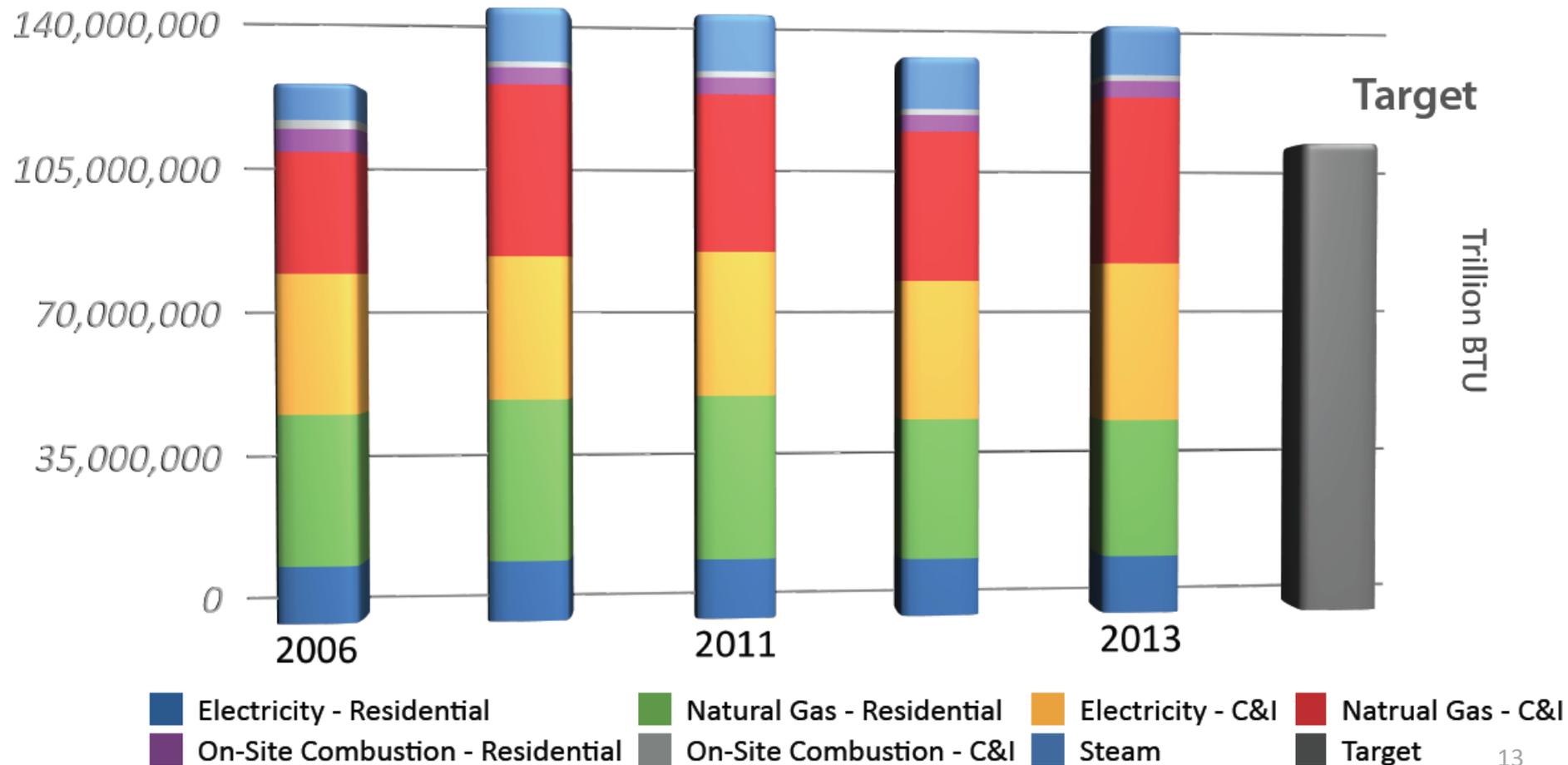


# Weather as a driver of citywide energy use

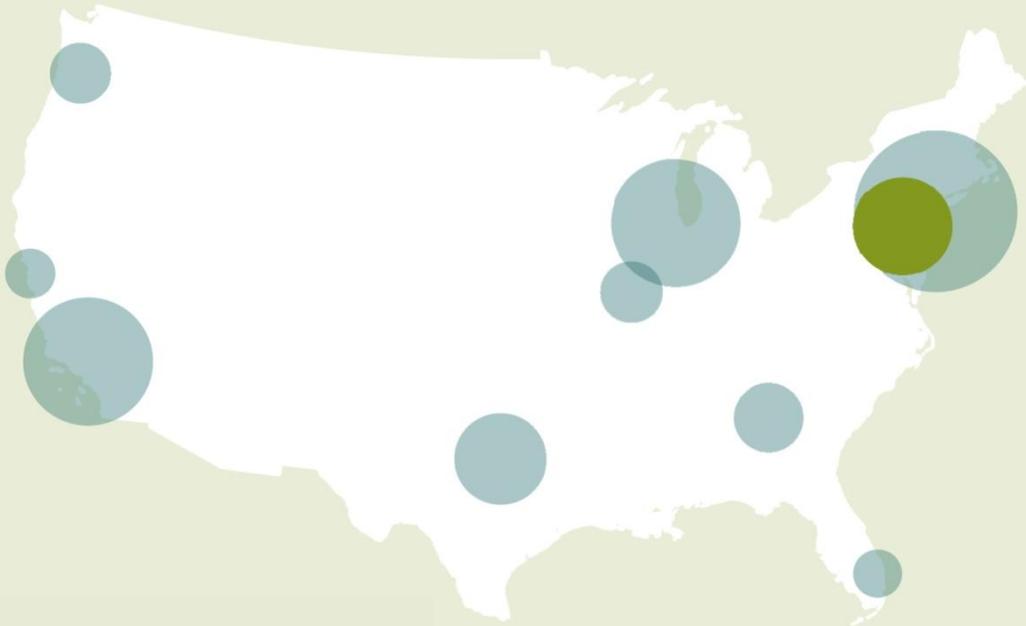


## Performance Measure 2: Citywide Building Energy Consumption

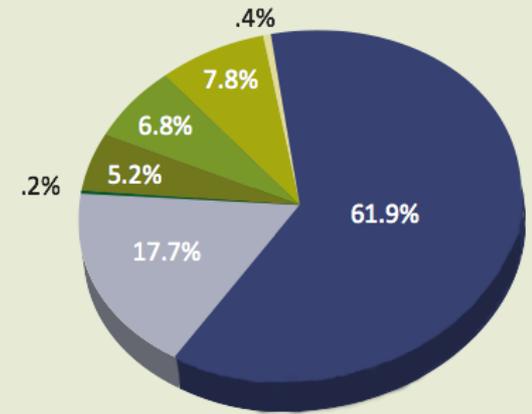
Reduce Citywide building energy consumption 10% by 2015



## Carbons Emissions in Philadelphia and the U.S.



ATLANTA	NEW YORK
CHICAGO	<b>PHILADELPHIA</b>
DALLAS	PORTLAND
LOS ANGELES	SAN FRANCISCO
MIAMI	ST. LOUIS

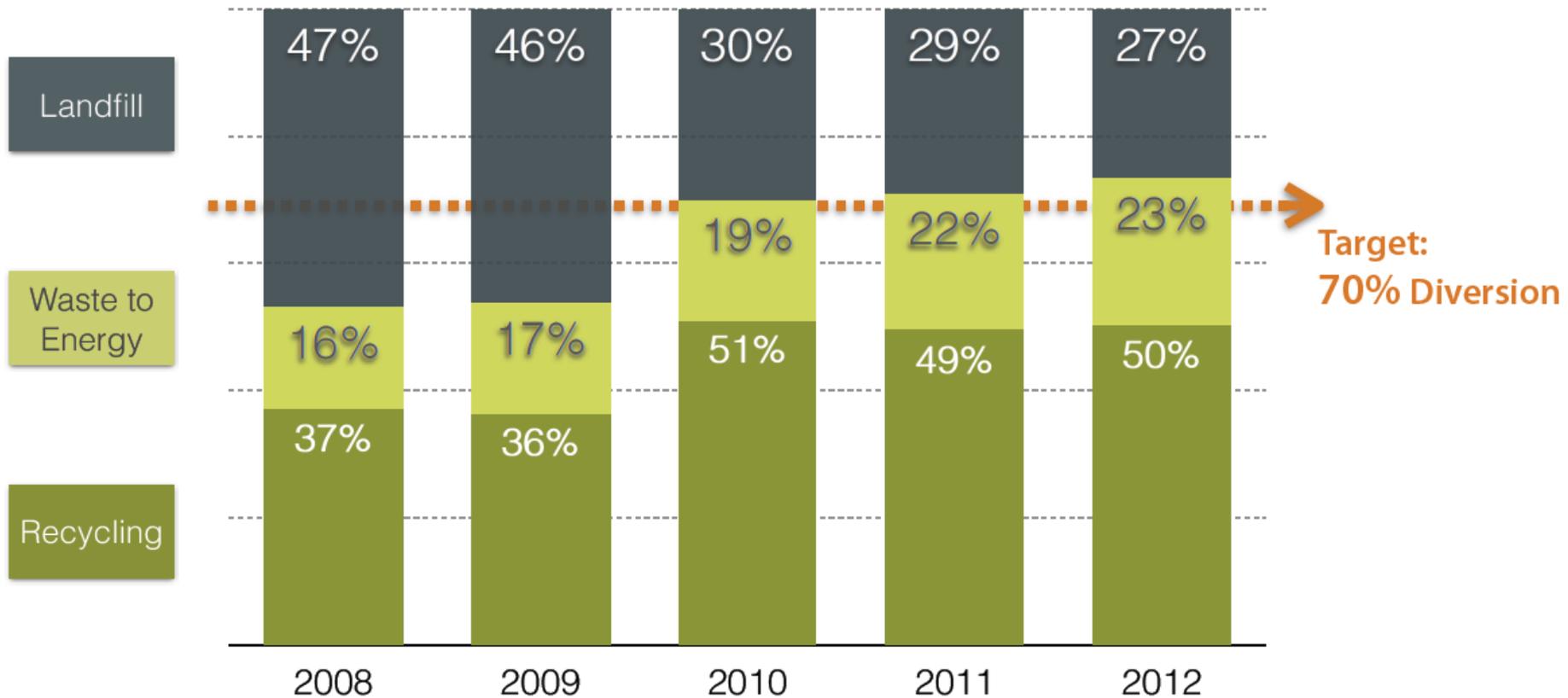


■ Buildings ■ Transportation ■ Street Lights ■ Fugitive  
■ Industrial ■ Waste ■ Wastewater Treatment

Buildings account for 62% of carbon emissions in Philadelphia

### Performance Measure 3: Citywide Recycling

*Divert 70% of Solid Waste From Landfill*

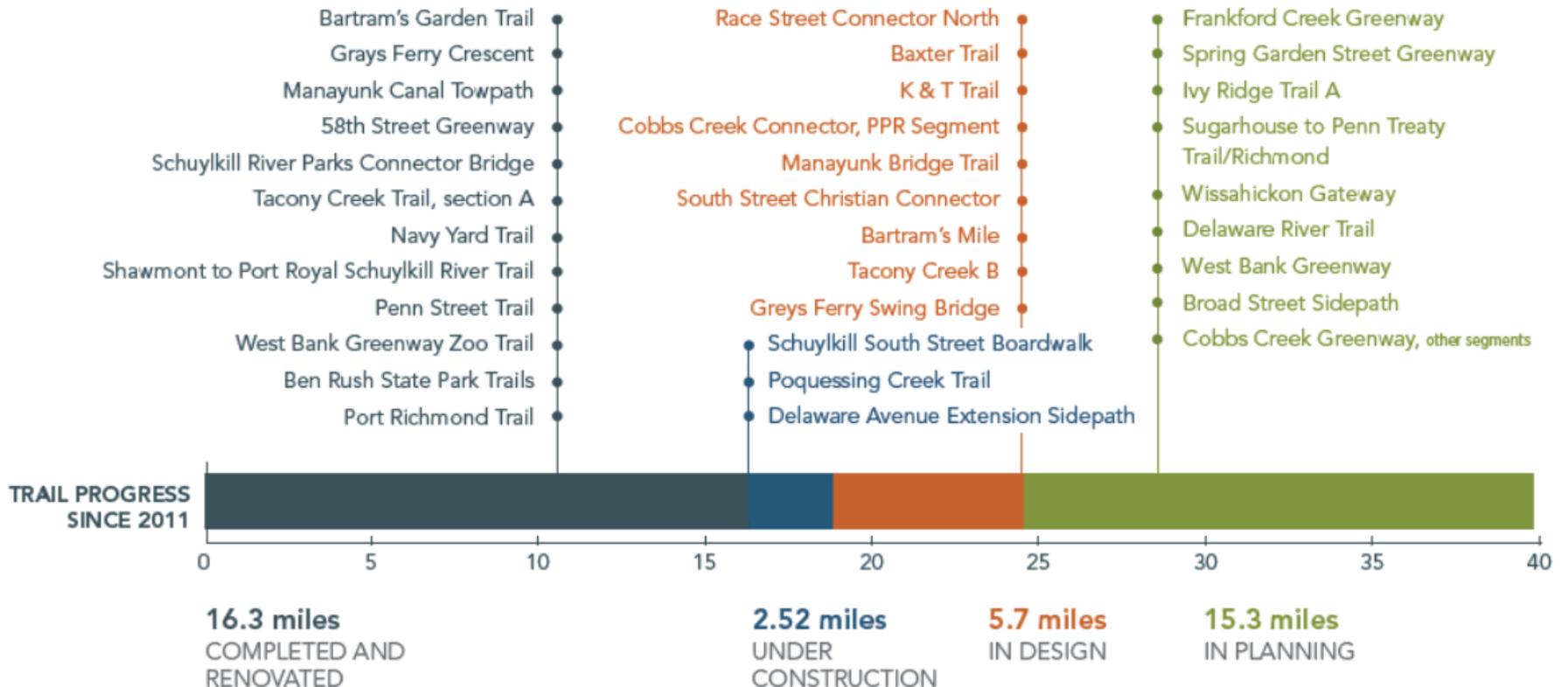


*Diversion rate includes recycling as well as waste to energy, also known as incineration.*

# Performance Measure 4: Equitable Access to Parks, Food, and Tree Canopy

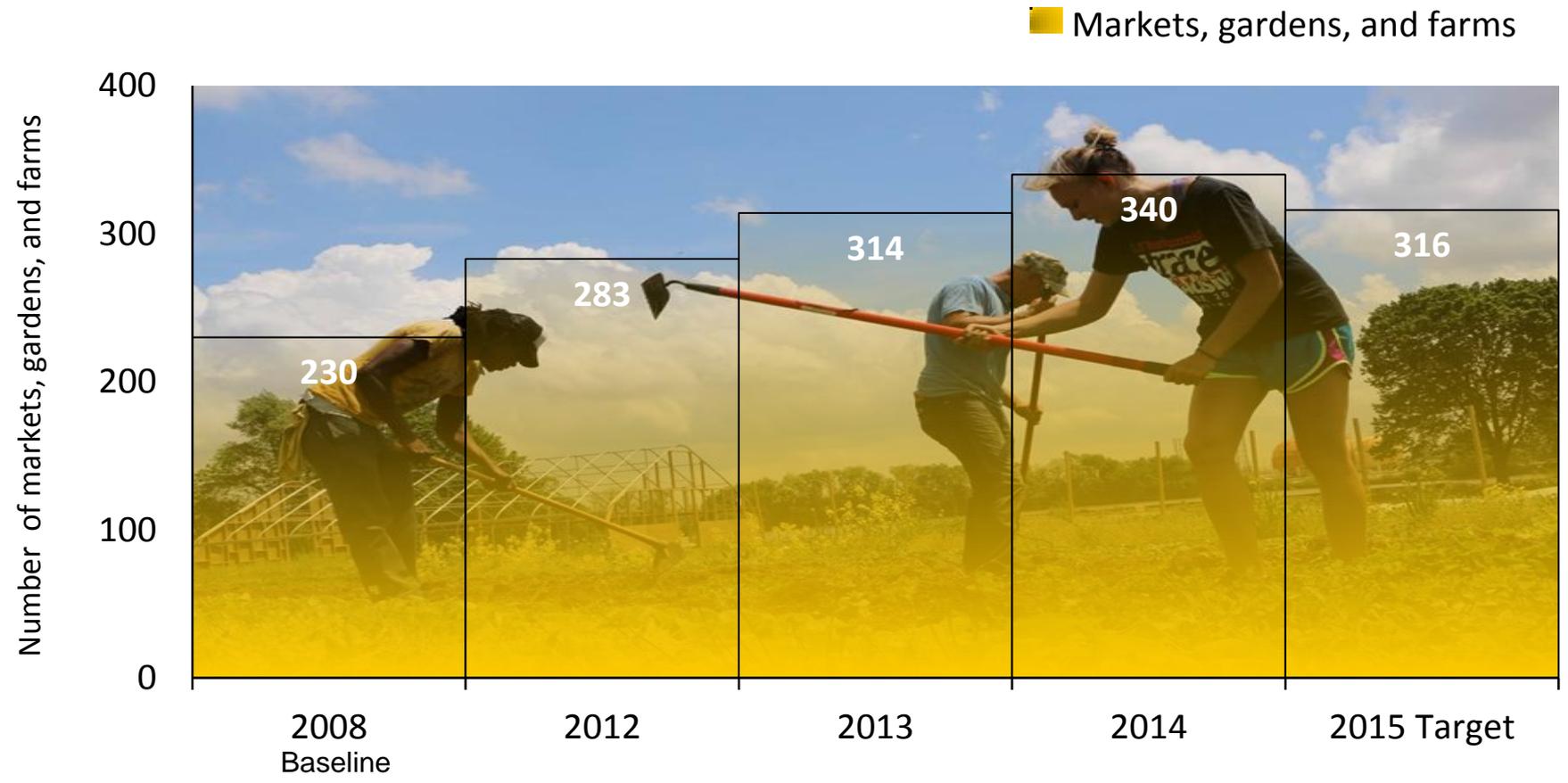
*Provide walkable access to Park and Recreation Resources for all Philadelphians*

## Philadelphia Trail Progress Since 2011



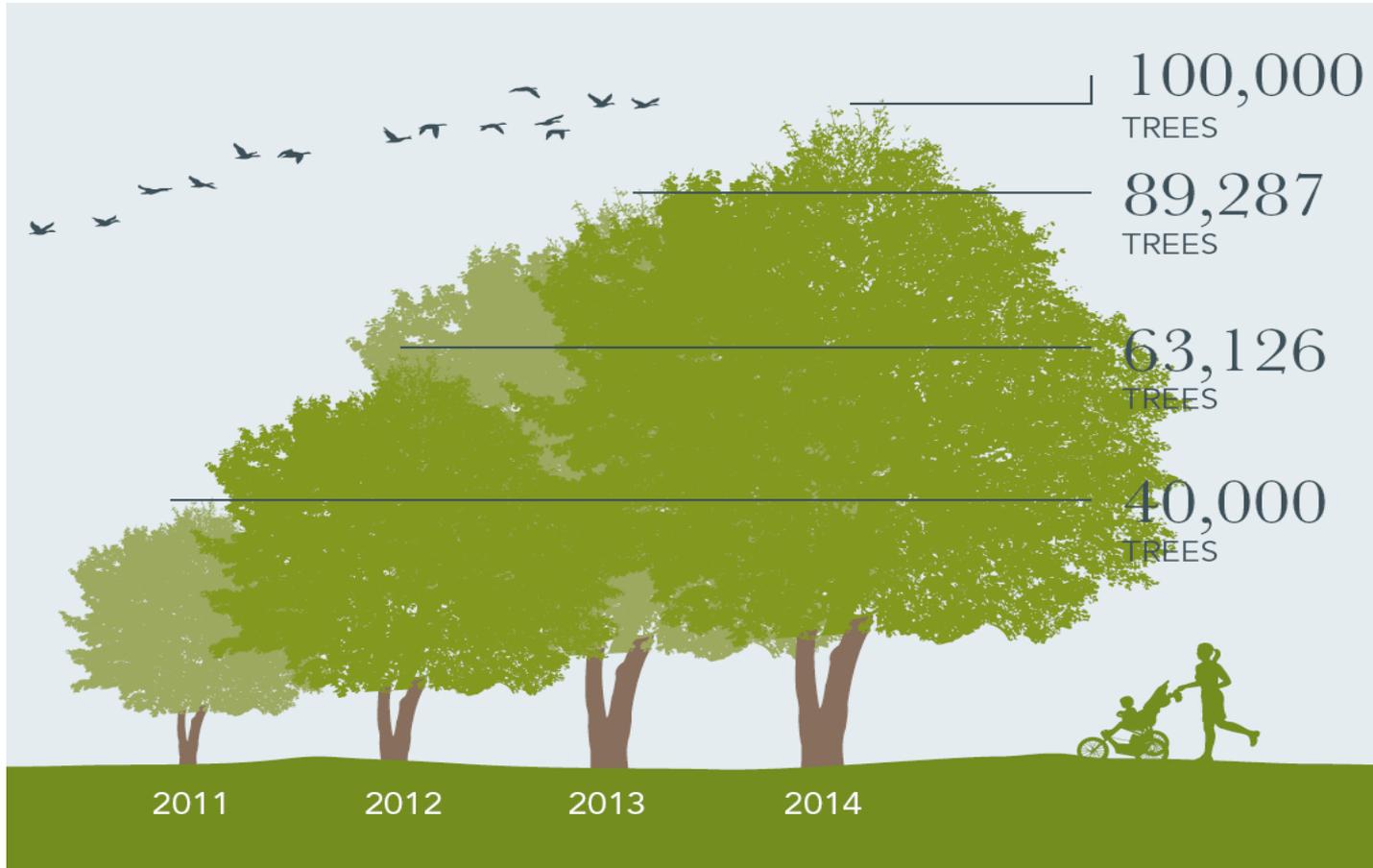
# Performance Measure 4: Equitable Access to Parks, Food, and Tree Canopy

*Provide walkable access to Healthy, Affordable Food for all Philadelphians*



## Performance Measure 4: Equitable Access to Parks, Food, and Tree Canopy

*Increase Tree Canopy Coverage to 30% in All Neighborhoods by 2025*





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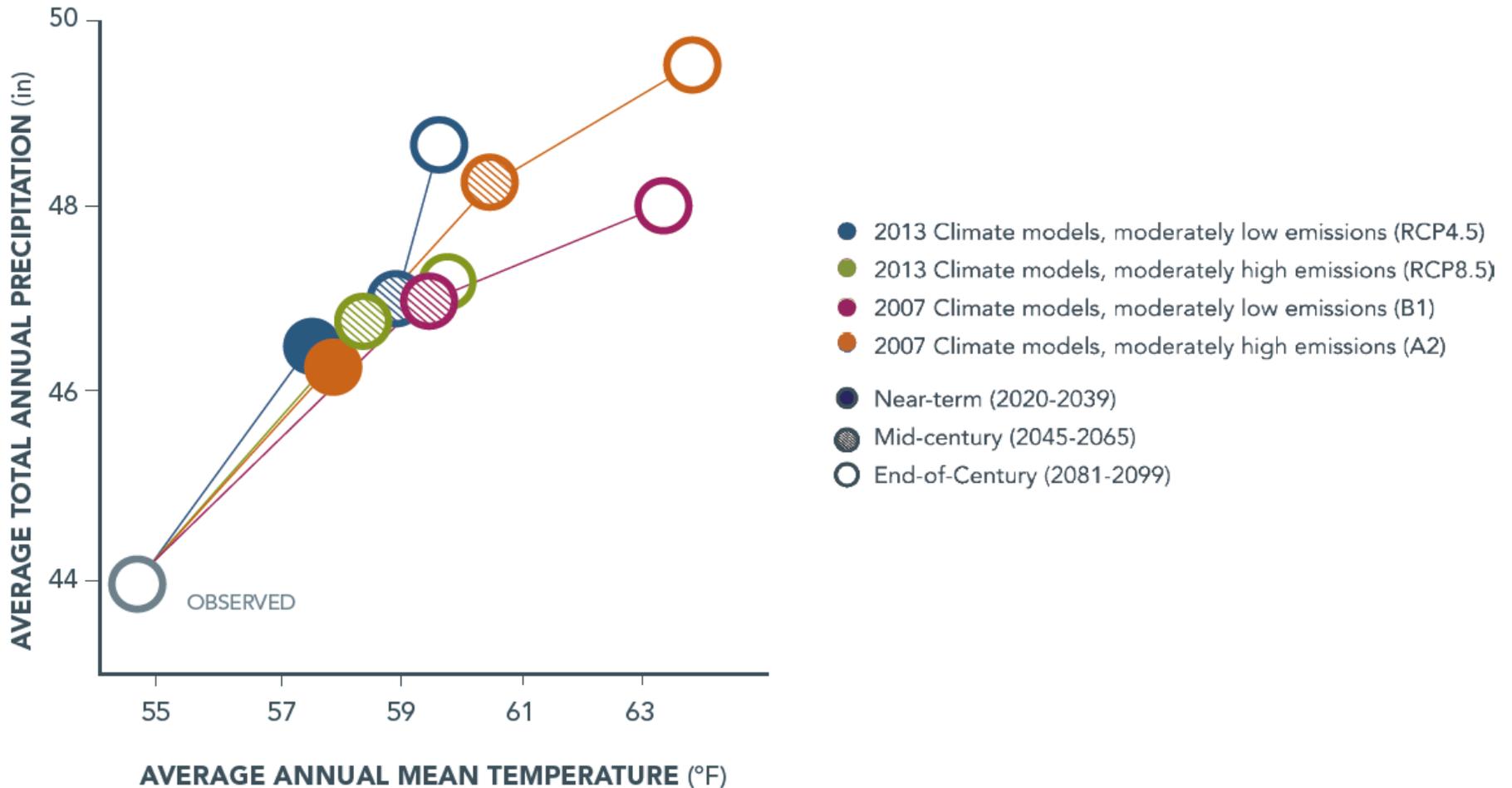
## What's on the Horizon



## Current Initiatives include:

- Climate Adaptation Planning
- Food Policy and Vacant Land
- Energy Benchmarking and the City Energy Project

# Climate Projections: End-of-Century (2081-99)



## Food Policy Advisory Council



*FPAC facilitates the development of responsible policies that improve access for Philadelphia residents to culturally appropriate, nutritionally sound, and affordable food that is grown locally through environmentally sustainable practices.*

# Energy Benchmarking and Disclosure

## 90% Compliance Rate over 2 years



### 2013 Building ENERGY Performance Profile

ADDRESS: 1717 Arch Street  
 YEAR BUILT: 1990  
 GROSS FLOOR AREA (SQUARE FEET): 1,377,698  
 OPA ID#: 883059004

#### Compare Your Building's ENERGY STAR® Score to Similar Buildings in the U.S. & Philadelphia

(1-100 Score, 100 is most efficient building)



Below is how your building's annual ENERGY STAR® Score compares to other National and Philadelphia Office buildings reported in 2013.



Your Building Ranks # 26 out of 165 similar buildings



- Ranking is based on self-reported data provided by building owners and operators.
  - Buildings 75 or above are eligible for ENERGY STAR certification
- Visit [www.energystar.gov/benchmark](http://www.energystar.gov/benchmark) to learn how.

## Longer Term Initiatives Include:

- Sustaining Sustainability Work
- Final 2015 Report

# Sustainability Engagement

The Mayor's Office of Sustainability has worked with a number of partners who have established their own sustainability plans, metrics, and reporting.

**PHILADELPHIA HAS THE HIGHEST PERCENTAGE OF RESIDENTS WHO BIKE TO WORK OF ANY AMERICAN BIG CITY.**

Philadelphia's efforts have earned the City recognition as a Bicycle Friendly Community by the League of American Bicyclists.



A new citywide bike map was published for the first time in eight years and its data was released to app developers.

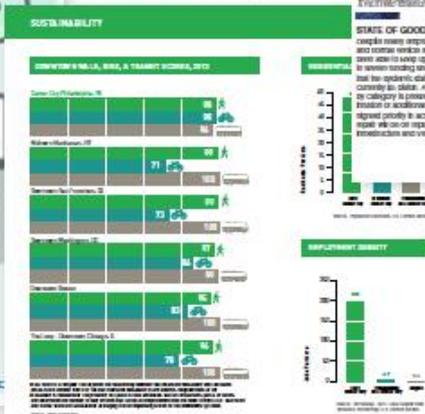
Since its establishment, MOTU and our partners have:

- installed thousands of bike racks across the City.
- converted 1,400 recycled parking meter poles to bike racks.
- installed 11 street bike parking corrals.
- installed more than 300 way finding signs for cyclists, pedestrians and motorists. The signs focus on key destinations including employment hubs, parks, trails and neighborhoods.

Adding to the success, Penn State and Center City are making the top 25 neighborhoods eligible to earn a designation.

Mayor's Office of Transportation and Utilities, MOTU@5

Center City District, State of Center City



In 2013, the residential recycling rate in Center City reached 25%, while the number of RecycleBank participants reached 12,533.

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SEPTA, Sep-tainable Seeing Results

**SEPTA STATE OF GOOD REPAIR BACKLOG**

Complete repair projects on state or good repair and some minor replacement, so the rail and transit can keep up with capital renewal due to seven leading conditions. Some indicators that the epidemic state of good repair backlog is currently in place: a majority of the backlog by category is presented in light green, with an upward arrow indicating an increase in backlog, or a majority of the backlog is presented in light green, with an upward arrow indicating an increase in backlog.

**SEPTA STATE**



**The Old Factory**

More than 100 tons of community food waste have been composted at the Old Factory, an innovative composting facility in the first year of operation, along with more than 100 bags of fiber from producing more than 200,000 units of organic compost for distribution to neighborhood gardens. Through 2013 University City households currently have their food waste taken to The Old Factory and 51% of The Factory reuse waste and composting community.

**SUSTAINABILITY**

University City District and partners aim to sustain a world sustainable community in University City by reducing emissions, increasing energy efficiency, and reducing the use of natural resources. These efforts are guided by the framework established by Mayor Nutter's Greenworks Plan to develop and lead community-wide goals and objectives in making Philadelphia the greenest city in America. To accomplish this, sustainability in the sustainable community work that has been underway for years by community residents, businesses, and institutions.

**EnergyWise**

Over the past two years, a partnership between UCD and the highly ranked EnergyWise program has helped 80 energy audits of University City homes leading to 80 completed energy efficiency audits. This accounts to 51% of all the audits completed in Philadelphia through this program, with an average reduction of 16.1% in energy use.

**Bank Check**

Bank Check is a Philadelphia Water Department (PWD) program that provides residents with resources to manage sewer and wastewater issues. Thanks to a partnership with UCD, University City has been a 100% participant with 611 households signed up for Bank Check. 100% of all sewer and wastewater issues, air pollution, and other improvements that have been made from analyzing the sewer system.

**A Green New Campus**

University City District will achieve a green campus according to 17% of the neighborhood's land area compared to 11% in University City. Philadelphia as well as extensive green spaces, including Chestnut and Spruce Streets Park.



U.C.D. is 100% owned by UCD by University City District.

University City District, State of University City

## Legislative Collaborations To Date

- **Bill No. 070072**  
*Green Roof Tax Credit*
- **Bill No. 080025**  
*LEED for City Buildings*
- **Bill No. 090775**  
*Cool Roof Code*
- **Bill No. 09119**  
*Sustainable Business Tax Credit*
- **Bill No. 110787**  
*Guaranteed Energy Savings Contract*
- **Bill No. 120428**  
*Energy Benchmarking and Disclosure*

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*Additional Public Resources*

<http://www.phila.gov/green>

<http://phila.gov/benchmarking>

[www.phillyfpac.org](http://www.phillyfpac.org)

[www.greenworksphila.wordpress.com](http://www.greenworksphila.wordpress.com)

[mos@phila.gov](mailto:mos@phila.gov)

[@Greenworksphila](#)

<https://www.youtube.com/user/greenworksphila>