

## Philadelphia Energy Benchmarking

ACEEE Symposium on Market Transformation Rich Freeh, Mayor's Office of Sustainability Tuesday, April 21, 2015

## GREENWORKS

PHILADELPHIA

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

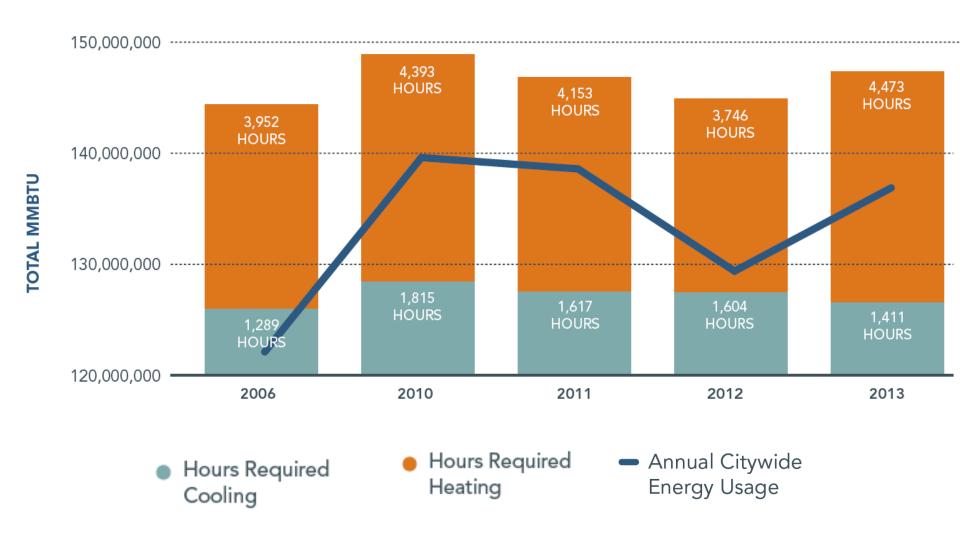
ADVANTAGE FROM SUSTAINABILITY

Engagement PHILADELPHIANS UNITE TO BUILD A

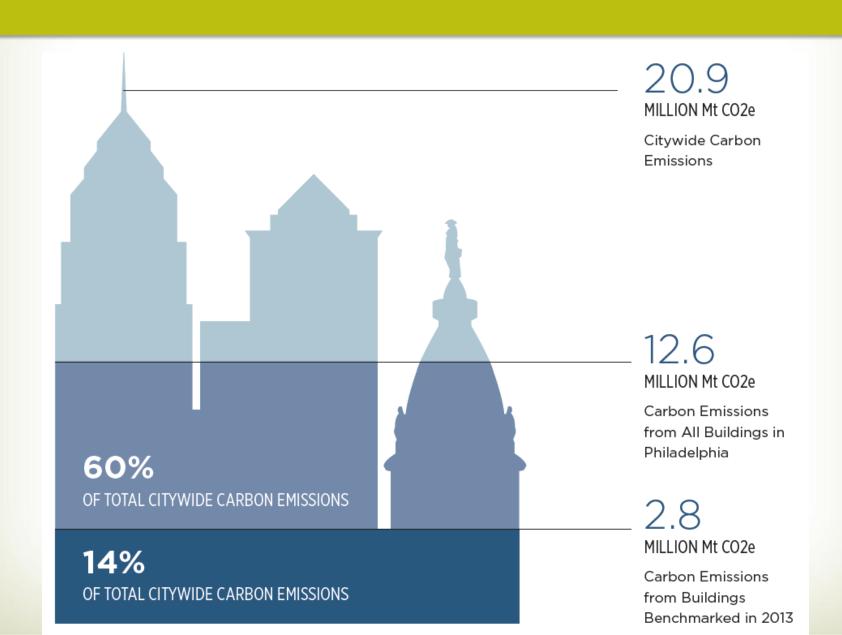
SUSTAINABLE FUTURE

5 goals, 15 targets, over 150 initiatives

# Weather Drives Energy Use

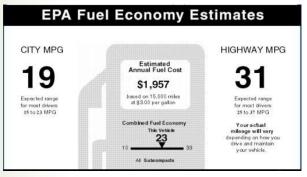


## **Buildings and Carbon Emissions**

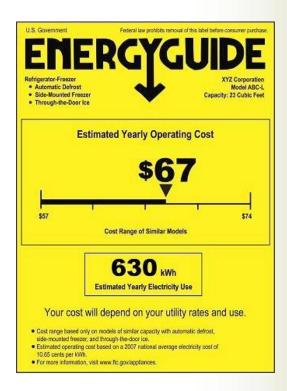


## Why Benchmarking?





Nutrit Serving Size 1 cup ( Servings per Contain	228g)	Fac	cts
Amount Per Serving	3		
Calories 280		Calories fr	om Fat 120
		% Da	aily Value*
Total Fat 13g		-	209
Saturated Fat 5g			259
Trans Fat 2g			
Cholesterol 2mg			109
Sodium 660mg	1970		289
Total Carbohydrate	31g		109
Dietary Fiber 3g			09
Sugars 5g			
Protein 5g			
Vitamin A 4%	•	Vitamin C 2%	
Calcium 15%	•	Iron 4%	
Percent Daily Values are bas be higher or lower depending			ily values may
	Calories:	2,000	2,500
Total Fat	Less than	65q	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Fiber		25g	30g
Calories per gram: Fat 9	Carbohydrate		Protein 4



No information = No action

Cities are looking at what drives demand and competition in other industries



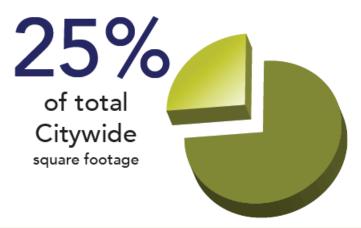
# Year Two Benchmarking Results





270
MILLION
Square ft.
(Non-residential)

Represents

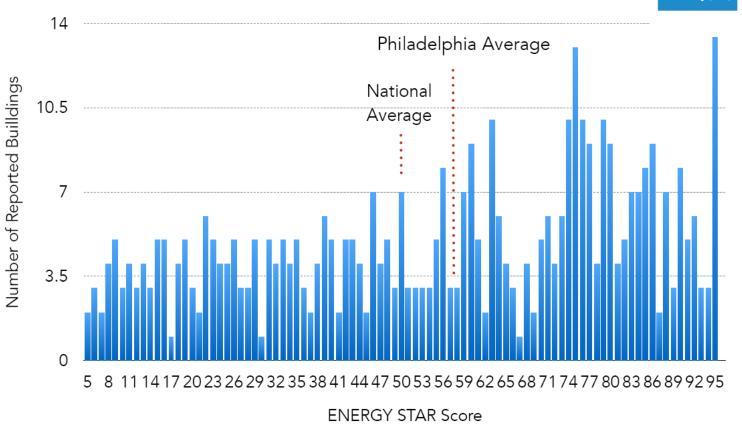




## Year Two Benchmarking Results



**ENERGY STAR Ratings of Reported Buildings** 





## Tailored Feedback to Building Owners



#### 2013 Building ENERGY Performance Profile

ADDRESS: 1515 Arch St YEAR BUILT: 1962 GROSS FLOOR AREA (SQUARE FEET): 502,000

OPA ID#: 772059100

#### 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<sup>a</sup> Score compares to other National and Philadelphia Office buildings reported in 2013.

NATIONAL AVERAGE SCORE



YOUR BUILDING'S



PHILADELPHIA'S AVERAGE SCORE



Your Building Ranks # 132
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 to learn how.





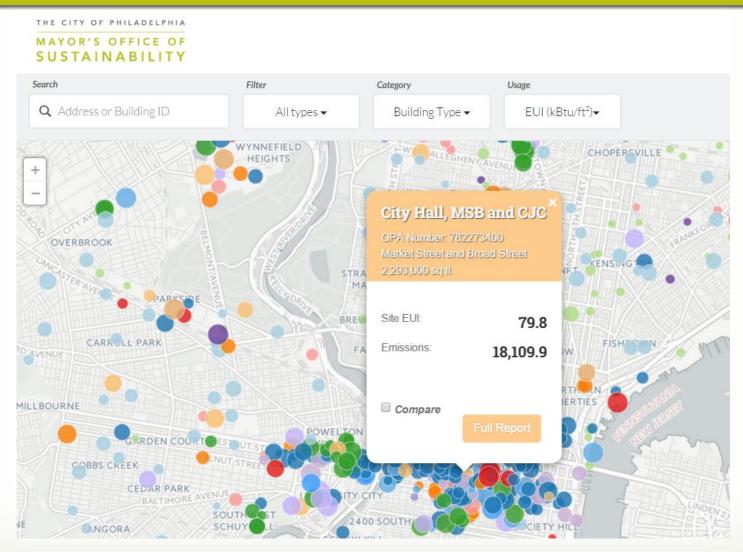


## Creating Competition to Save Energy



- Commit to a one year reduction of 5%
- Attend free building operator training
- Share energy efficiency project plan

# Delivering More Impactful Information to the Marketplace

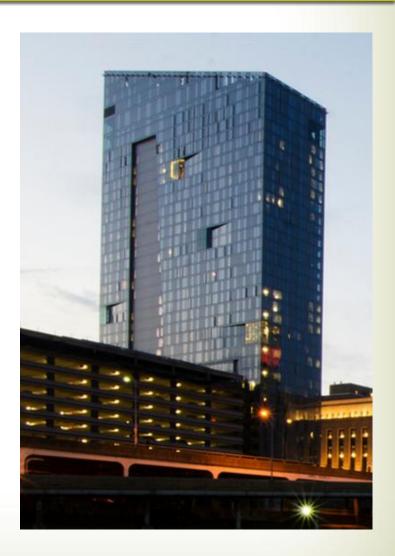


http://visualization.phillybuildingbenchmarking.com

## What's next?

- Multi-Family Benchmarking
- Building Operator Training
- Expanded Outreach





## Support from Partner Organizations

#### LOCAL PARTNERS







DELAWARE VALLEY GREEN BUILDING COUNCIL

#### **UTILITY PARTNERS**









### **NATIONAL PARTNERS**













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