



Philadelphia's Built Environment & Energy

COG Built Environment And Energy Advisory Committee
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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

Greenworks Update



CLEAN ENERGY AND EFFICIENT BUILDINGS

All Philadelphians efficiently use clean energy that they can afford

What YOU Can Do

INDIVIDUALS

- O Make your home as energy efficient as possible and find out how to buy clean energy at PA-PowerSwitch.com.
- O Explore rooftop solar opportunities.
- Consider energy policy in the voting booth.

NEIGHBORHOODS

- O Educate neighbors about energy incentives and resources available to the community.
- O Coordinate projects like community solar or block-wide white roof coating.

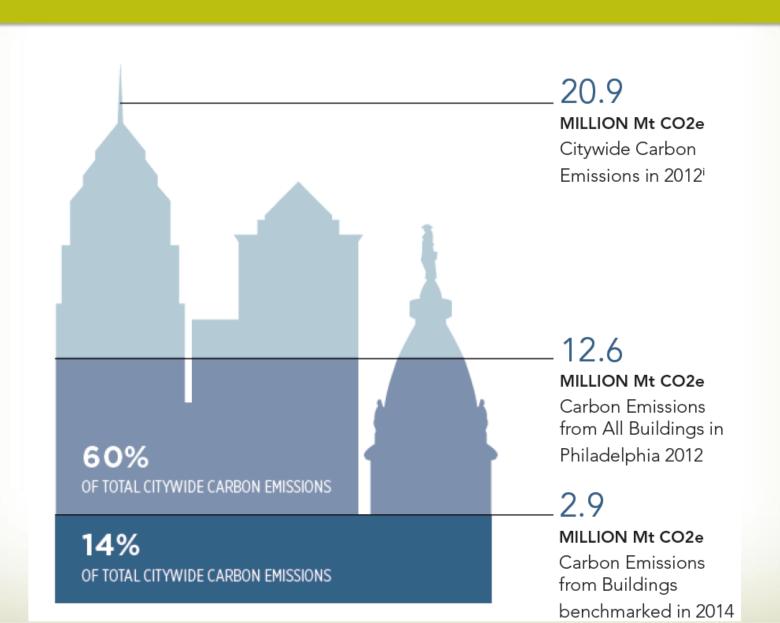
INSTITUTIONS

- O Educate employees and tenants about efficiency opportunities.
- Set organizational greenhouse gas

Philadelphia's Carbon Emissions and Energy Consumption

	Baseline	Greenworks Target	To Date
Target 1: Lower City Government Energy Consumption by 30 Percent	3.77 Trillion BTUs (2008)	2.64	3.93 (2015)
Target 2: Reduce Citywide Building Energy Consumption by 10 Percent	122.06 Trillion BTUs (2008)	109.85	140.4 (2015)
Target 5: Reduce Greenhouse Gas Emissions by 20 Percent			
Municipal	477,463 Metric Tons CO2e Emitted (1990)	477,463	459,831 (2015)
Citywide	21.0 Million Metric Tons CO2e Emitted (1990)	16.85	19.13 (2014)

Buildings and Carbon Emissions



Energy Benchmarking



1921 BUILDINGS Reported



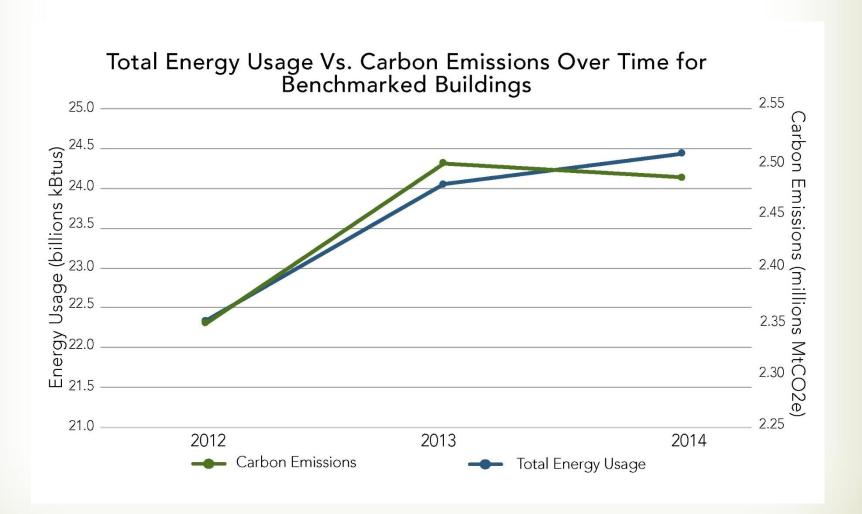








Energy Benchmarking



Energy Benchmarking Program

Data Visualization Tool

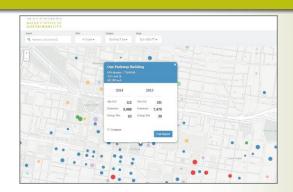
http://visualization.phillybuildingbenchmarking.com

Energy Scorecard

- Energy use intensity/ Energy Score over time
- Estimated cost savings
- Ranked within local sector
- Energy efficiency info

Building Energy Challenge

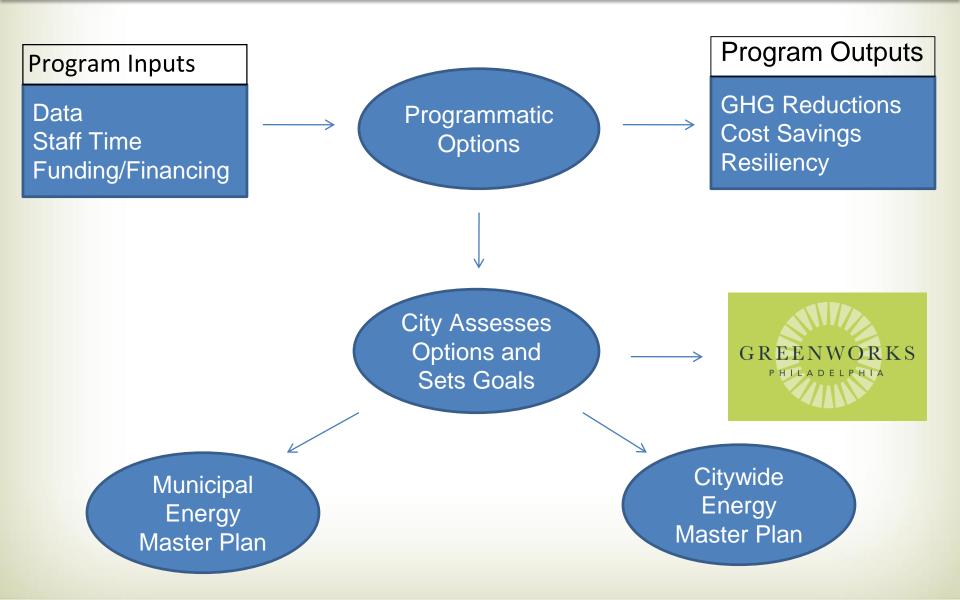
- Reduce energy by 5% in one year
- More than 30 buildings
- Free building operator training course
- Saved 70 million kBtus and reduced carbon emission by 11 percent



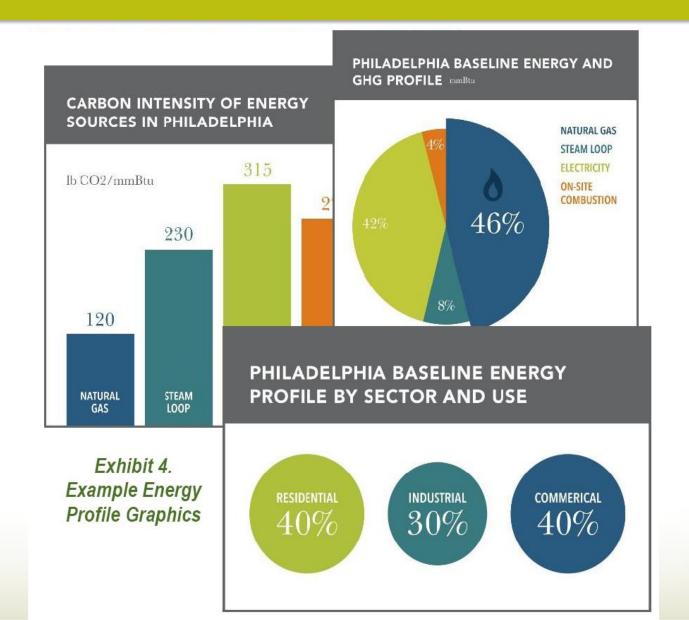




Energy Master Plan for the Built Environment



Energy Master Plan for the Built Environment





Philadelphia Built Environment & Energy

Office of Sustainability, City of Philadelphia www.phila.gov/green