



Georgia Chapter Energy Services Coalition

Tuesday

July 28, 2015 1:30-3:30 pm

AGL Resources

**Kathy Robb - Private Co Chair
AGL Resources, Energy Services
404.584.4372**

**Wesley Holmes - Public Co Chair
SEEA
404.602.9661**



Agenda - Welcome

- **Welcome**
- **Atlanta Better Buildings Challenge Expo and Building Efficiency Spotlight Event**
- **GEFA Updates**
 - **ESPC's**
 - **MEASURES Project**
- **City of Atlanta**
 - **City Energy Project**
 - **Benchmarking Ordinance**
- **Chapter Updates**
 - **ESC Annual Conference in Charlotte**
 - **Sponsor Opportunity**

Atlanta Better Buildings Challenge

Energy Services Coalition Meeting

July 28, 2015



Total Program Participants

		Signed On 2015	Signed On Total
Total	Number of Properties	32	406
	Square Feet	2,804,059	96,360,949
Downtown	Number of Properties	-	61
	Square Feet	-	39,219,830
Midtown	Number of Properties	-	32
	Square Feet	-	13,670,818
Other*	Number of Properties	32	264
	Square Feet	2,804,059	27,149,517
Buckhead	Number of Properties	-	49
	Square Feet	-	16,320,784

*Includes City of Atlanta Facilities and Participants outside of listed Activity Centers



Data Dashboard Abbcdata.com

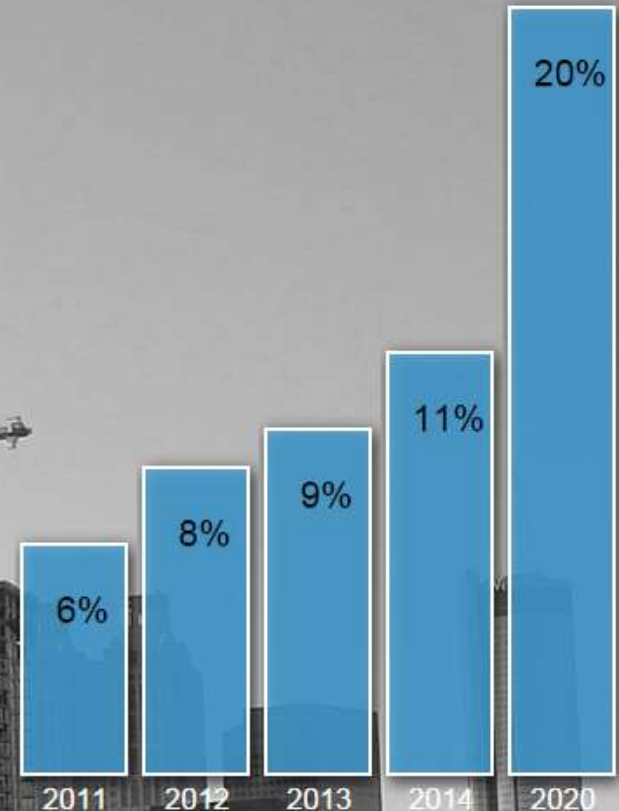
20%

more efficient by

2020

361 properties in the metro Atlanta area: saving money, improving efficiency, and building a better Atlanta. [See the overview](#)

Showcasing metrics from the Atlanta Better Buildings Challenge





ATLANTA BETTER BUILDINGS CHALLENGE

08/19/2015
5:00-8:00pm
Atlanta
Botanical
Garden



ABBC Expo and Building Efficiency Spotlight Event

Presenters Level (\$1000):

- Presentation in the Building Efficiency Solution Spotlight
- Prominent feature placement in the Vendor Guide that will be given to participants in paper form and live on the ABBC website for the remainder of 2015
- Spotlight article in the ABBC monthly newsletter
- 2 event admissions
- Exhibit Table
- \$50 off new Green Chamber of the South company-level Membership
- 2 complimentary tickets to the Atlanta Botanical Garden special exhibit by Bruce Munro on August 19th

Expo Table Hosts (\$500):

- Listing in the Vendor Guide that will be given to participants in paper form and live on the ABBC website for the remainder of 2015
- 2 event admissions
- Exhibit Table
- \$50 off new Green Chamber of the South company-level Membership
- 2 complimentary tickets to the Atlanta Botanical Garden special exhibit by Bruce Munro on August 19th



Questions

Shelby Busó

Director of Sustainability, Central Atlanta Progress, Inc.

84 Walton Street – Suite 500 • Atlanta, GA 30303

Office 404.658.5992

sbuso@atlantadowntown.com





GEFA Updates

❖ ESPC Updates

❖ MEASURES Project: Key Takeaways

- **GOAL:** This project will help states identify an appropriate EM&V protocol and energy efficiency/emissions reductions tracking approach that would enable them to utilize ESPC projects in 111(d) compliance plans.
- **Partners:** Three States (VA, GA, KY), NASEO, CESI, SEEA, NACAA, NAESCO



The Atlanta Commercial Buildings Efficiency Ordinance: Establishing Atlanta as a National Leader in Energy Performance

Presented by Dr. Matt Cox, Office of Sustainability

July 2015

Overview Energy Goals



- Increase the number of residents actively completing home energy assessments to **10 percent by 2015 year-end**
- Triple the renewable capacity **by 2015**
- Reduce citywide commercial building energy consumption **20% by 2020**



Energy Efficiency & Renewables

Water Management

Overview City Energy Project

CEP is a national initiative aimed at **improving the energy efficiency of commercial buildings.**

- **Priorities**
 - **Innovative economic solutions**
 - **cut energy bills**
 - **boost the local economy**
 - **reduce pollution**
- Move Atlanta toward becoming a top-tier city for sustainability.

10 mayors of large American cities have committed to making their cities stronger and healthier through the City Energy Project: Better buildings for better cities.

Atlanta
Mayor
Kasim Reed



Kansas City, MO
Mayor
Sly James



Boston
Mayor
Martin J. Walsh



Los Angeles
Mayor
Eric Garcetti



Chicago
Mayor
Rahm Emanuel



Orlando
Mayor
Buddy Dyer



Denver
Mayor
Michael B. Hancock



Philadelphia
Mayor
Michael A. Nutter



Houston
Mayor
Annise Parker



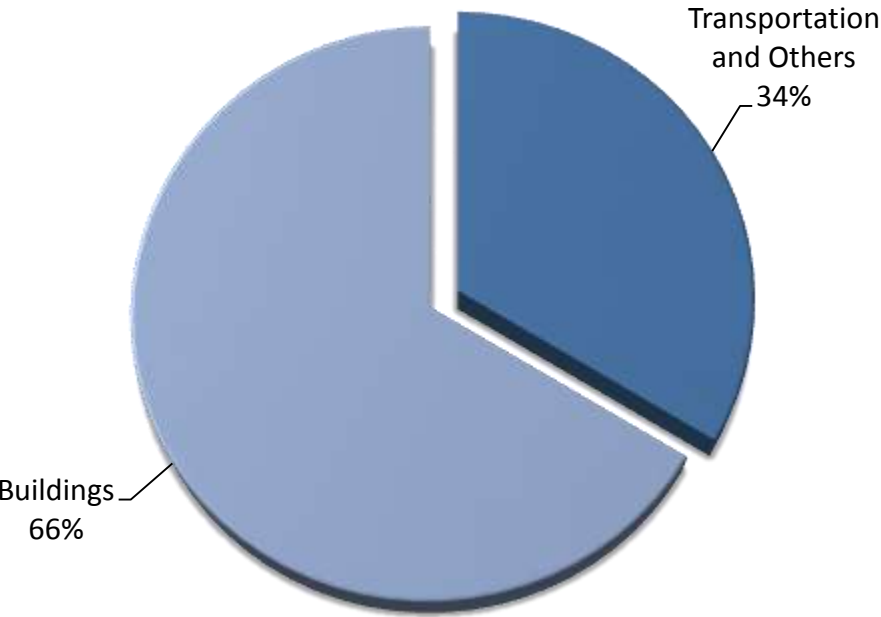
Salt Lake City
Mayor
Ralph Becker



ATLANTA'S ENERGY AND EMISSIONS FOOTPRINT

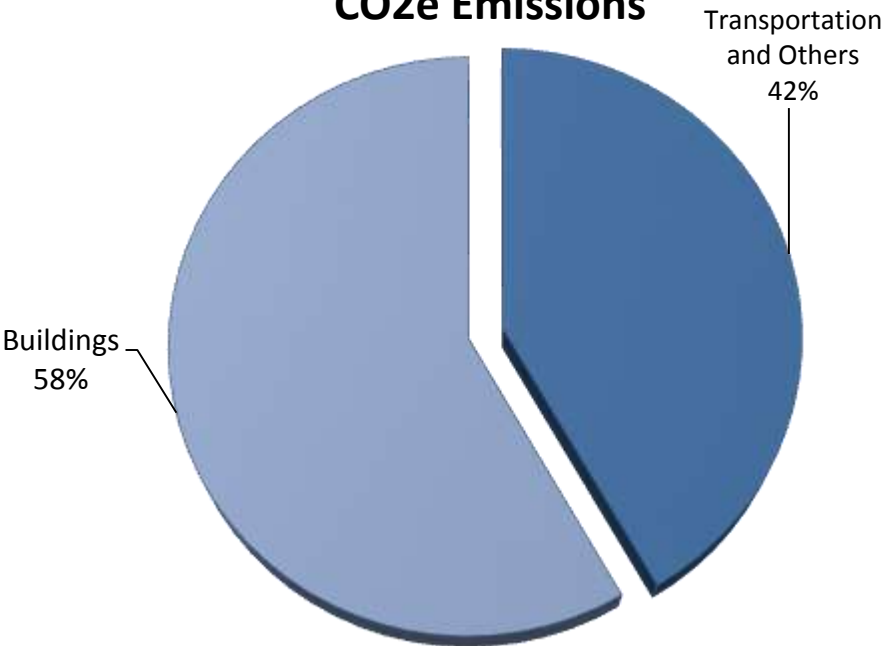
City of Atlanta

Energy Consumption



City of Atlanta

CO2e Emissions



Overview Energy/Water Efficiency Leading by Example



RM Clayton WTC

American Society of Civil Engineers
Cogeneration Project of the Year



Historic Fourth Ward Park

Urban Land Institute Award 2013 –
Historic 4th Ward Park



Atlanta Civic Center

U.S. Department of Energy
1st Better Buildings Challenge Showcase

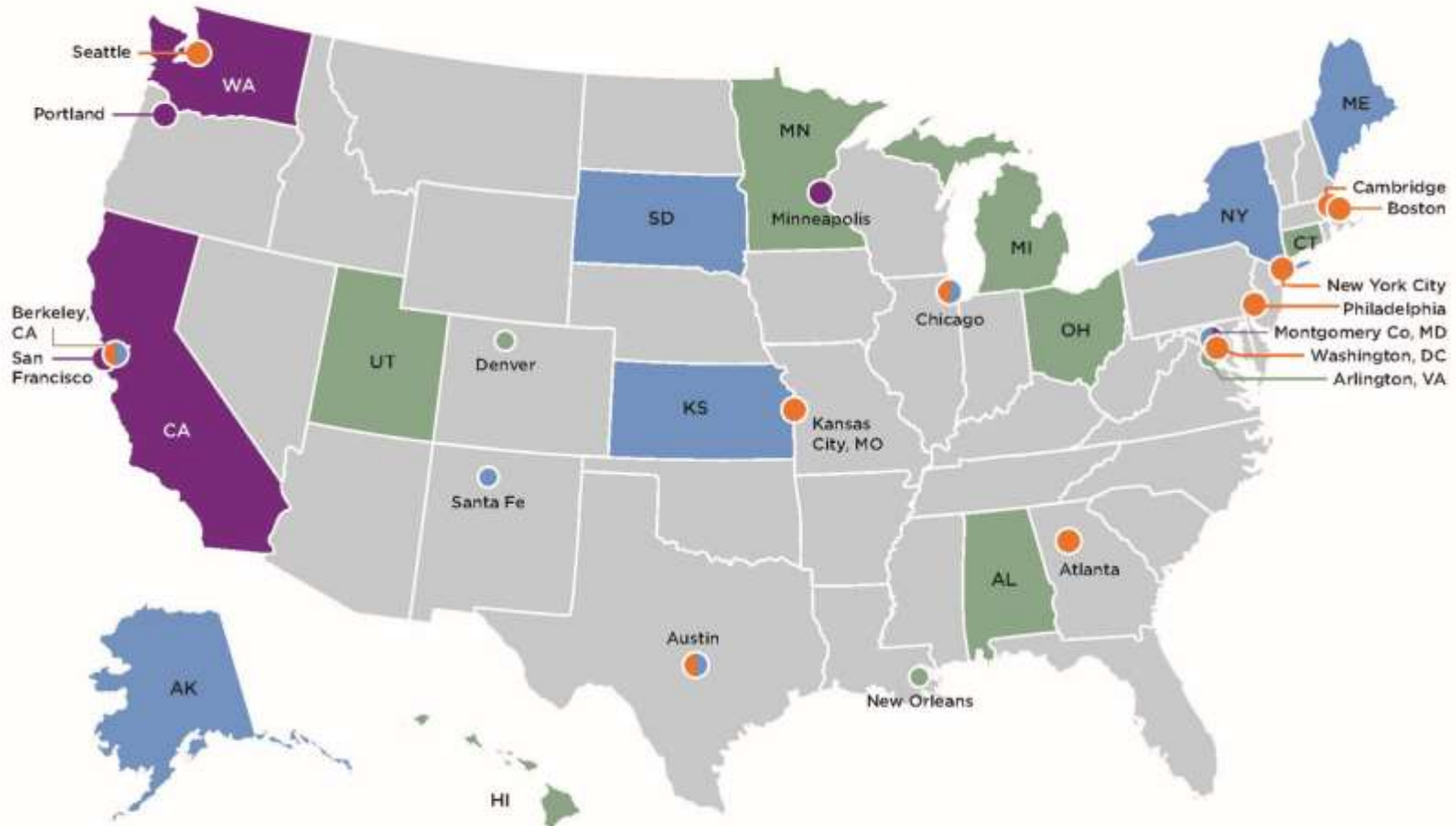


3rd Nationally - EPA Energy Star Buildings



U.S. Benchmarking Policy Landscape

U.S. Building Benchmarking and Transparency Policies



Building Rating

RAISING TRANSPARENCY FOR A MORE EFFICIENT FUTURE

- Commercial policy adopted
- Commercial & multifamily policy adopted
- Public buildings benchmarked
- Single-family transparency adopted

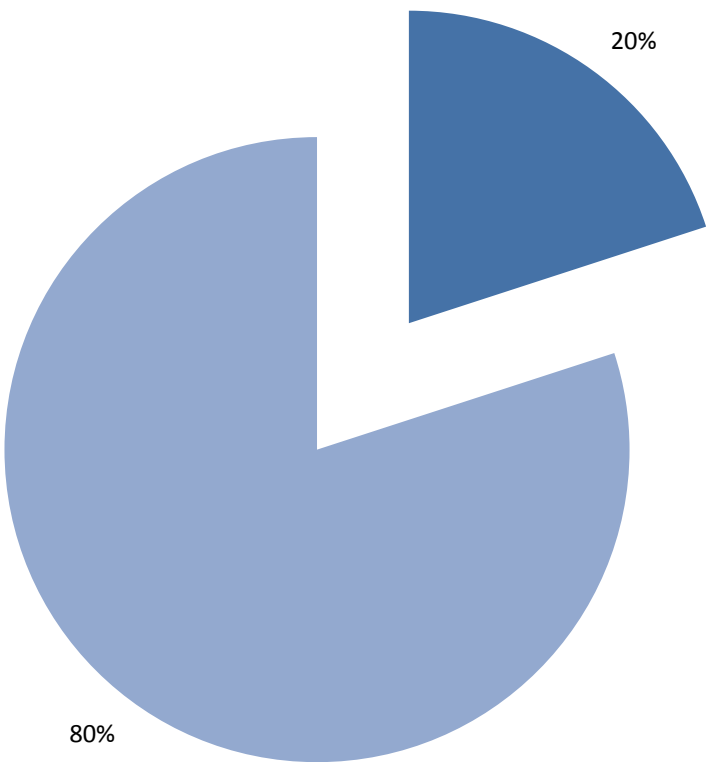
Context - Commercial Building Figures

Covered Buildings



■ Exempt ■ Action Required

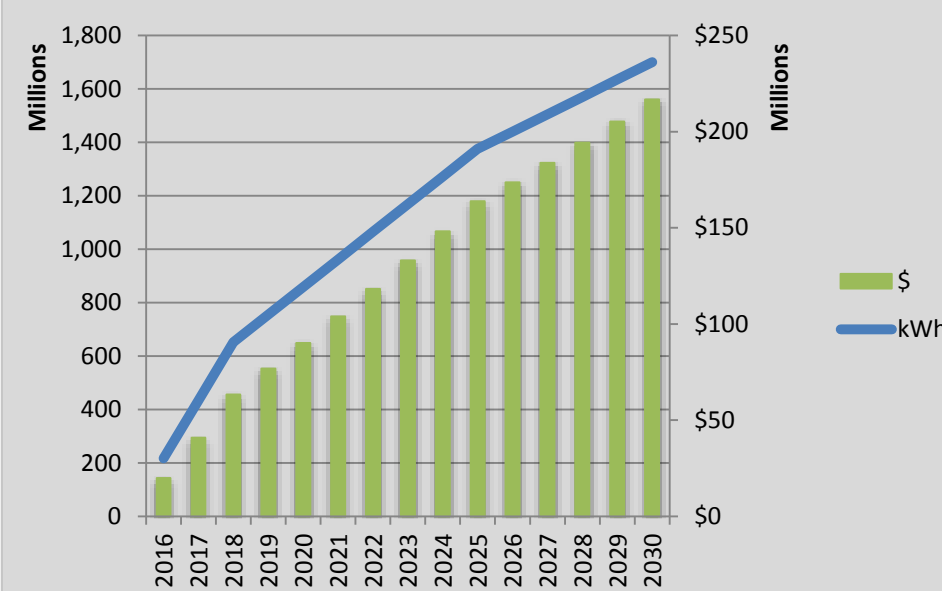
Covered Square Footage



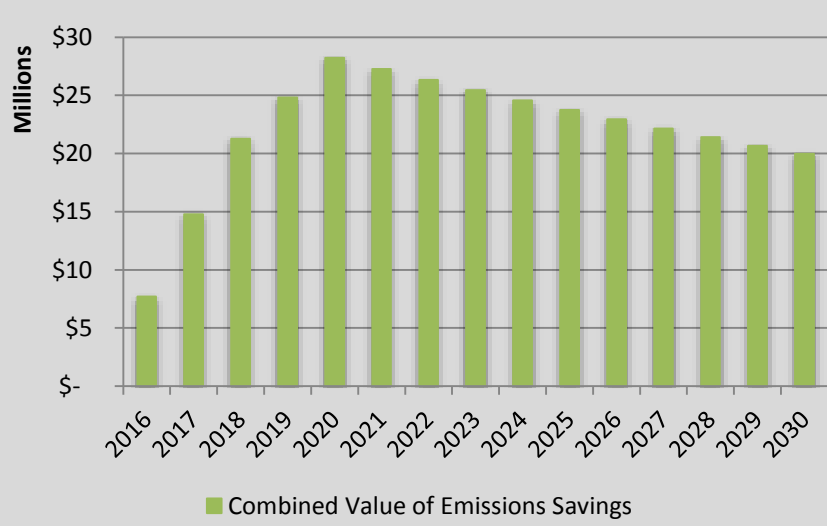
■ Exempt ■ Action Required

ORDINANCE COSTS AND BENEFITS

Energy Savings



Public Health Benefits



	Cumulative Social Benefits (Millions)				Cumulative Social Costs (Millions)		Benefit/Cost Analysis	
Year	Lower Energy Expenditures	Value of Avoided Emissions	Net Reduced Utility Expenditures	Total Social Benefits	Investments	Total Social Costs	Social B/C Ratio	Net Social Benefits
2020	291	97	199	587	430	430	1.4	157
2030	1,930	331	1,080	3340	843	843	4	2500

Part I: Benchmarking

1

What is benchmarking?

Tracking energy and water consumption on site for properties over 25,000 sqft

2

How do you benchmark?

Utilize EnergyStar Portfolio Manager

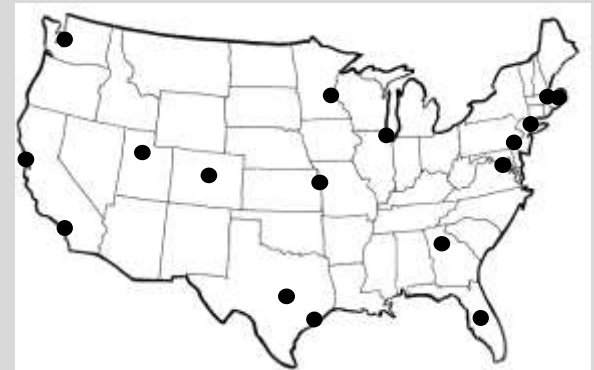
*Free web-based platform

*14 cities currently follow this process nationwide;
others are considering

3

Who benchmarks in Atlanta?

Currently over 500 buildings in ESPM



Part II: Transparency

1 What is transparency?

Reporting energy and water consumption characteristics of a property.

2 How does it work?

Properties will send a benchmarking submission using a two-step process in ESPM.

The City of Atlanta will check the data and make it publicly available.

Part III: Energy Audits

1

What is an energy audit?

A professional walk-through of a facility to check for opportunities to improve energy performance, focusing on equipment retrofits.

2

How does it work?

Property owners use a certified professional to perform the work and produce an itemized list of opportunities. Owners then choose which opportunities to pursue.

3

Who uses Energy Audits in Atlanta?

Currently, Georgia Power offers no-cost energy audits for commercial customers; GPC provided 1,400 state-wide last year.

Part IV: Retrocommissioning

1

What is Retrocommissioning?

Retrocommissioning is the process of improving the efficiency of existing building systems through repair and maintenance; it is a voluntary component of this proposal.

2

How does it work?

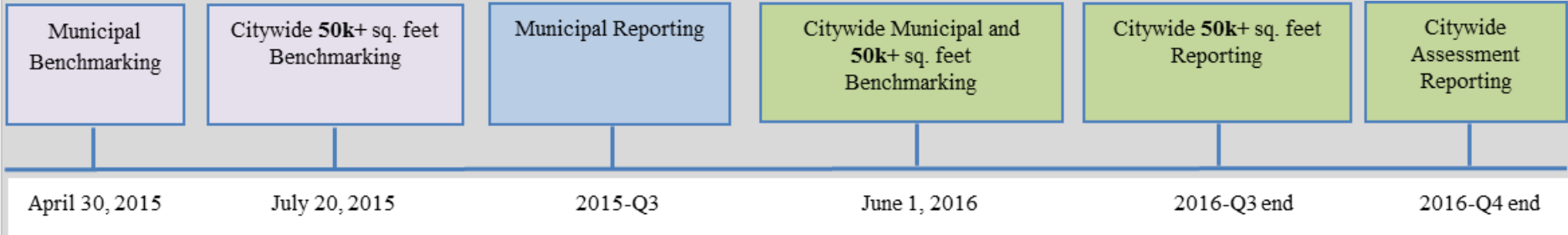
Property owners use a certified professional to perform the work and produce an itemized list of opportunities. Owners then choose which opportunities to pursue.

ORDINANCE TIMELINE AND REQUIREMENTS

What Needs to be Done?

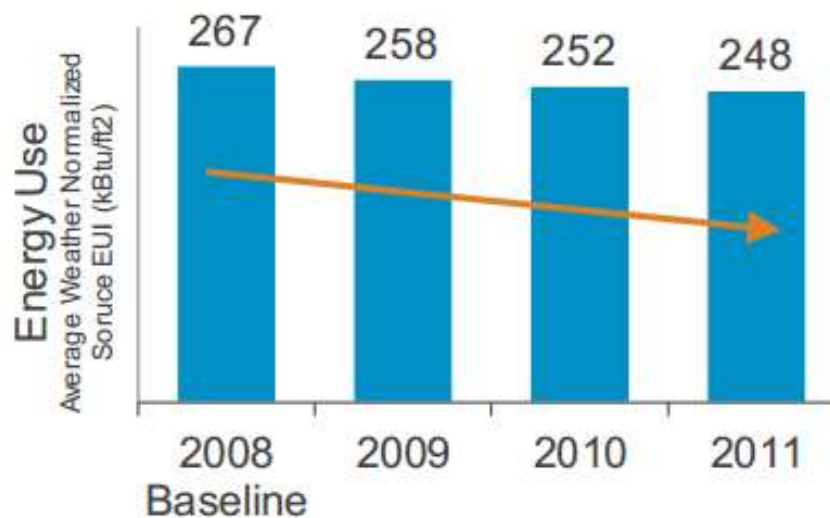
	Benchmarking	Transparency	Energy Assessment	Retrocommissioning
Who/What	Bldg owner inputs consumption	Bldg owner submits 12 months of data to municipality	If the ABID* ends in the same digit as the year, contract professional services	Contract professional services if desired
Frequency	Annually	Annually	1/10-years	Optional

When?

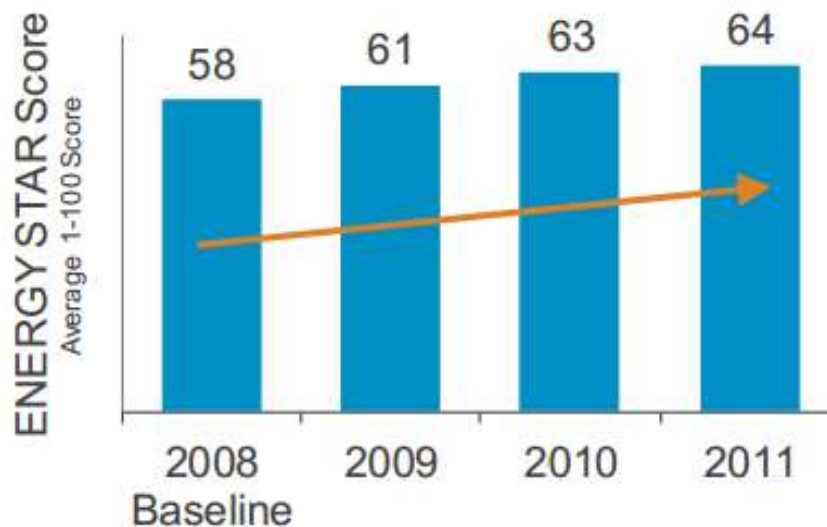


*On June 1, 2017, 25k+ sqft will benchmark

According to a 2012 EPA analysis, buildings that used Portfolio Manager to track energy usage between 2008 and 2011 realized an annual energy savings of 2.4% and a total energy savings of 7%.

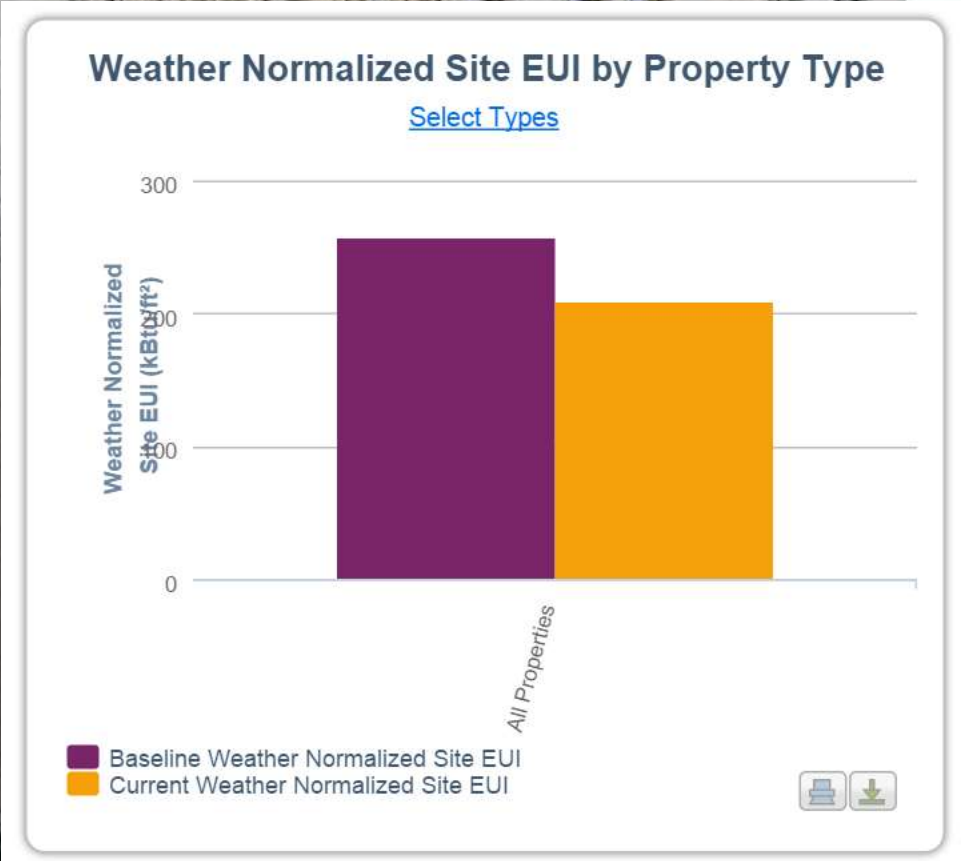


**7%
Savings**



**6 point
increase**

CITY OF ATLANTA SAVINGS TO DATE



Questions?

General: Go to www.atlantabuildingefficiency.com or www.atl311.com

Technical Assistance: Southface HelpDesk – 404-604-3665; benchmarkhelp@southface.org

Ordinance requirements:

Contact the Mayor's Office of Sustainability

buildingefficiency@atlantaga.gov

404-335-1959



Chapter Updates

- ❖ **4th Annual ESC Market Transformation Conference
Sept 1-2, 2015, Charlotte, North Carolina**
- ❖ **ABBC Sponsorship Opportunity**
- ❖ **Chapter Treasurer**



Questions?

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Southeast Energy Alliance
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