





One of my proudest accomplishments as Mayor of Atlanta is the tremendous success achieved through the Atlanta Better Buildings Challenge (ABBC). The Office of Resilience has partnered with businesses and nonprofit organizations to implement a comprehensive, voluntary program to increase energy and water efficiency in our building stock. The Atlanta Better Buildings Challenge invites participating building owners to commit to a 20 percent reduction in energy and water use by

year 2020. With more than 114 million square feet of building space and more than 600 buildings pledged, Atlanta has earned its spot as a leader on the efficiency scoreboard.

Since 2011, this successful public-private partnership between the City of Atlanta, Central Atlanta Progress, Livable Buckhead, Midtown Alliance and Southface has positioned Atlanta as a national leader in energy and water efficiency. We surpassed our water reduction goal five years ahead of schedule, and we're quickly closing the gap on our energy goal, having already reduced our portfolio's energy consumption by 17 percent. Through the Atlanta Better Buildings Challenge, participants are saving money on bills now, while helping to ensure a more resilient future for all Atlantans.

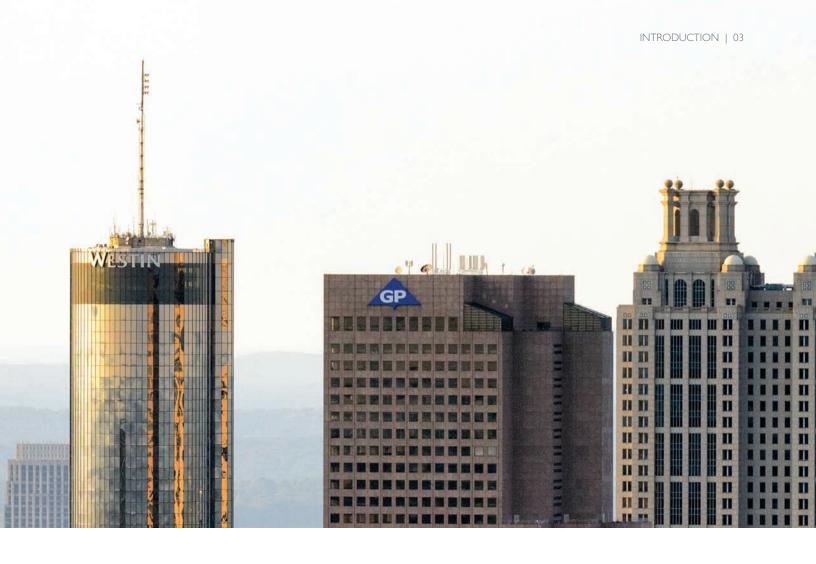
This program plays a pivotal role in furthering Atlanta as a top-tier city for sustainability. We hope to inspire other cities by our achievements and lead by example as we continue to make big strides in reducing our energy and water usage.

Thanks to our participants in the Challenge.

Sincerely,

Mayor Kasim Reed





IMPROVINGTHE EFFICIENCY OF OUR BUILDINGS 20 PERCENT BY 2020

The goal of the Department of Energy's Better Buildings Challenge is to improve the efficiency of commercial, institutional, industrial, and multifamily buildings by 20% or more by 2020. In June 2011, the Mayor's Office of Resilience, Central Atlanta Progress, Atlanta Downtown Improvement District and Southface partnered to create the Atlanta Better Buildings Challenge (ABBC). Competing against more than 75 cities and counties, the Atlanta Better Buildings Challenge quickly set itself apart through innovative partnerships and leadership from the City and business community.

Participation is now city-wide upon Midtown Alliance and Livable Buckhead joining the program. With more than **114 million square feet committed**, the Atlanta Better Buildings Challenge has proven that sustainability provides tremendous value to Atlanta's economy, environment, and the health of its citizens.

Resource conservation efforts not only support the City's sustainability efforts and lead to a cleaner and healthier place to live and work, but the dollar savings achieved by participating buildings frees up business capital that stimulates economic growth in Atlanta.

Organizations who commit to the challenge work collaboratively, creating public-private partnerships and sharing implementation models to help the market adopt higher efficiency standards at a quicker pace. The Atlanta Better Buildings Challenge's partnership model has been crucial to the program's success; fueled by friendly competition, this team effort has proliferated across the city and is now gaining regional momentum.



OUR ACHIEVEMENTS ENABLE US TO TAKE OUR PLACE AS A NATIONAL LEADER IN SUSTAINABILITY

Since the Atlanta Better Buildings Challenge launched six years ago, we've made exceptional progress. Participation has grown rapidly across Atlanta's three major commercial districts, both in terms of participating buildings and public engagement. We developed an **implementation model** that allows us to share best practices and lessons learned, and provides a framework and tools for others who are interested in replicating our resource efficiency efforts. Our **Economic Impact Model** allows us to calculate the positive influence the program has had on Atlanta's economic growth and development, and our **Data Dashboard** helps participants easily track the improved energy and water efficiency of our buildings, and Atlanta's overall progress towards our goals.

OVERALL IMPACT OF SAVINGS

The Atlanta Better Buildings Challenge has made the process of getting to the energy and water benchmark simple and straightforward. This simplicity is reflected in the remarkable savings already achieved by participants. With three years remaining in the program, we are excited to see what can be achieved; scaling above the savings targets will only bring additional value and help Atlanta become a top tier sustainable city. Beyond the direct impacts of the program, Atlanta has also seen numerous environmental and health benefits as a result of the program. Participants have also become more aware of both the community's and their own building's water and energy challenges – and how best to manage them.

THERE IS STILL TIME TO JOIN

Much has been achieved by participants, though there is still work to be done. Over the next three years, we will continue to enroll and support participants, and work to maintain the commitment and enthusiasm we've seen en masse since 2011. Beyond energy and water savings, this will mean innovating and pushing sustainable business practices in Atlanta's built environment, facilitating the establishment of public and private partnerships, and spreading awareness on the value of sustainability for the economy and the environment. Sign up and learn how you can save at atlantabbc.com/about.

2016 SAVINGS



14% water savings portfolio-wide amount of water in 1,626 wave pools

38.8% of Atlanta's portfolio 20% savings goal ahead of the



ENERGY

17% energy savings portfolio-wide for **12.7** years.

38.9% of Atlanta's portfolio



VALUE

273 new jobs created or sustained

\$20.8 million was added to



CARBON

11,833 tons of CO, reduced around the earth 1,313 times.



ACTIONS

9,000,000 square feet of





82.7% improvement in metro





ONE ALLIANCE CENTER

Since 2014, One Alliance Center (OAC) Engineers have improved preventative maintenance processes on capital equipment. Retro-commissioning HVAC equipment is now seen as being part of regular maintenance. Weather and building load factor data is built into regular building energy management system (EMS) strategies, and Live Meter Monitoring allows Engineers to see implemented changes as part of their EMS strategies. OAC completed a landscape renovation project to reduce the need for irrigation and connected to the Three Alliance Center stormwater management facility in 2014 to eliminate the use of city water for irrigation at OAC.

GEORGIA WORLD CONGRESS CENTER

With 3.9 million square feet under one roof, the world's largest LEED certified convention center operates much like a small city and needs to maintain operations during upgrades. Before identifying specific energy conservation measures, an in-depth audit was conducted to identify opportunities for improvement. Based on these results, selected upgrades included the implementation of a new central plant to provide reliable heating and cooling performance for the next 2-3 decades, and new energy management systems and services that facilitate monitoring, analysis, alerts, reporting, tracking, and data visualization of the convention center's systems and performance. Upgrades are expected to cut utility consumption by 39% annually, saving more than \$2.5 million in the first year alone.

RHODES HALL

Rhodes Hall has achieved exceptional water and energy savings due to its participation in three separate energy efficiency programs: The Atlanta Better Buildings Challenge, Grants to Green, and EarthCraft Sustainable Preservation. Special care is required to comply with historic preservation guidelines: for example, insulation was upgraded by placing Tyvek over the original wood subflooring and other original materials before spray foam insulation could be applied. The organization has shifted in a positive direction after the implementation of energy efficiency upgrades, including new policies that have been adopted for HVAC settings, lighting, recycling, and other sustainable practices.

www.highwoods.com



23.4%

reduction in water usage.



22.8%

reduction in energy use.



16.0%

reduction in annual utility costs.



20.5%

reduction in greenhouse gas release.

ADDRESS

3500 Lenox Road NE Atlanta, GA 30326 OWNER Highwoods

Properties

YEAR BUILT

2001

531,897

PROJECT SF

BUILDING USE

Class A+ High-Rise Commercial Office Tower ENERGY STAR® SCORE

87

www.gwcca.org



41.0%

reduction in water usage.



5.0%

reduction in energy use.



39%

reduction in annual utility costs.



7.0%

reduction in greenhouse gas release.

ADDRESS

285 Andrew Young International Blvd NW, Atlanta, GA 30313 OWNER

(GWCCA)

YEAR BUILT

Georgia World Congress Center Authority 1976

PROJECT SF 3,920,000 BUILDING USE

Convention, tradeshow, sport, religious, and event facility ENERGY STAR®
SCORE

N/A

www.georgiatrust.org/historic_sites/rhodeshall



14.2%

reduction in water usage.



55.7%

reduction in energy use.



58.5%

reduction in annual utility costs.



55.4%

reduction in greenhouse gas release.

ADDRESS

1516 Peachtree St. NW Atlanta, GA 30309 OWNER

The Georgia Trust for Historic Preservation YEAR BUILT 1904

11,000

PROJECT SF

BUILDING USE

Office &
Event Space,
Educational
Tours, Museum

ENERGY STAR® SCORE

95



SEE HOW YOU STACK UP

Our Data
Dashboard
provides energy
use intensity (EUI)
data, ENERGY
STAR® scores,
and energy and
water savings by
building type.

Access the Data Dashboard to find buildings like yours, based on square footage, year built, and property use, to see how your energy and water use compares.

abbcdata.com

THE CHALLENGE STIMULATED ATLANTA'S ECONOMY BEYOND EXPECTATIONS

Over the past six years, the Better Buildings Challenge has helped Atlanta's community and businesses reduce our impact on the environment, improve the health of our residents, and stimulate Atlanta's economy beyond expectations. Our city rose to the challenge and has succeeded tremendously, paving the way for other municipalities and organizations to make a measurable difference in their own cities.

2016: A BANNER YEAR FOR ABBC*

108

additional jobs created or sustained.

\$10M

Gross Regional Product created, boosting Atlanta's economy.

\$10M

invested in Atlanta's infrastructure.

\$8M

impact on income because of efforts within Atlanta Better Buildings Challenge portfolio.

Source: Greenlink data analysis conducted using ATHENIA Modeling Software

~\$1M

additional value identified in avoided social impact damages due to reduced energy generation demand and subsequent improved air quality.

Reduction metrics:

- Carbon
- Volatile Organic Compound
- Ammonia
- Nitrogen Diovide





"We received \$1.5 million in work resulting from relationships built through Atlanta Better Buildings Challenge."

"DLB Associates, a consulting engineering firm with an office in Atlanta, provides services to building owners participating in the Atlanta Better Buildings Challenge. Their participation has allowed them to expand the amount of energy efficiency engineering services that they provide. They have received approximately \$300,000 of direct projects through ABBC, and an additional \$1.5 million in work resulting from relationships built through the ABBC. The firm believes that the Atlanta Better Buildings Challenge provides them an opportunity to help the community at large by furthering the region's sustainability goals."

- Green, T. DLB Associates

"ABBC-related work accounted for roughly 20% of their Energy Services Group's revenue."

"McKenney's, an Atlanta-based mechanical contracting company, works closely with Atlanta Better Buildings Challenge building owners and operators to support environmentally responsible strategies that can help reduce their buildings' energy consumption. For the past several years, ABBC-related work accounted for roughly 20% of their Energy Services Group's revenue. Not only has McKenney's gained new clients through the ABBC, their participation in ABBC as a vendor has allowed them to expand their scope of services to existing clients. The real-world insights McKenney's obtained via the Atlanta Better Buildings Challenge have allowed them to discuss EE opportunities with existing clients. McKenney's now does more building energy analyses than before to help quantify the energy savings opportunities for their customers. To help complete this extra work, McKenney's hired one EE professional. McKenney's also believes that their participation in ABBC as a vendor has provided them good networking opportunities and valuable insight into the commercial market by highlighting what energy practices various properties are putting in place, or not putting in place."

- Bracey, J. McKenney's

LEADERSHIP AND LEGACY

The Better Buildings Challenge, administered through the Department of Energy, is a national leadership initiative launched by President Obama in 2011 designed to drive leadership in energy innovation and accelerate private sector investment in energy efficiency.

Atlanta responded to the Better Buildings Challenge by designing and launching a city-wide energy and water use efficiency challenge that brought together public and private businesses in a partnership to pursue the city's ambitious energy and water savings goals. Building owners and managers joined the Atlanta Better Buildings Challenge by pledging to reduce energy and water use by 20% in their buildings by 2020. In return, participants were eligible for incentives such as free building assessments, energy efficiency implementation technical assistance, education and training courses, access to project financing opportunities, and public recognition.

Atlanta was the first city to include a focus on water consumption as part of the challenge, distinguishing the Atlanta Better Buildings Challenge from many programs operating nationally or in other cities. Wise and efficient use of water is critical to becoming the city that Mayor Kasim Reed has described in his 'Power to Change' sustainability initiative, as water is a limited natural resource.

STRONG LEADERSHIP EMERGED IN THREE AREAS

Mayor's Office

The Mayor's office has contributed several milestones since the start of ABBC. By committing the entire city to a target of 100 percent clean energy by 2035, implementing the Commercial Buildings Energy Efficiency Ordinance, expanding the number of electric vehicle charging stations throughout the city, and adding 1.5 MW of solar energy to the city's grid, Atlanta is well on its way to becoming a top-tier sustainable city. Additionally, Atlanta has been selected as a member of 100 Resilient Cities – a group dedicated to helping cities become more resilient in the face of environmental, social, and economic change.

Business Community

The Atlanta Better Buildings Challenge originated in the city's 400-block Downtown district, with the goal of reducing energy and water consumption in two million square feet of commercial space. Atlanta's business community responded to the Challenge with remarkable enthusiasm; since its launch, the program has expanded to Atlanta's Midtown and Buckhead districts, encompassing a major financial and commercial district in the Southeast and more than 114 million square feet.

Knowledge & Support

Southface has been inspiring market based solutions at the nexus of the social, natural and built environments since 1978. As a founding partner to the Atlanta Better Buildings Challenge, Southface imparts the technical assistance for the program by conducting energy audits for early participants. Southface staff provides ongoing data management leadership and side-by-side planning support for participant's efficiency upgrades. Southface continues to expand support by leading monthly education sessions and programming to assist buildings in achieving their efficiency goals.

"Atlanta Better Buildings Challenge is a crucial effort for the Atlanta region"

"Aligning with the Atlanta Regional Commission's mission to steward livable, sustainable communities and foster careful management of precious water resources, the Atlanta Better Buildings Challenge is a crucial effort for the Atlanta region, one that puts economic and environmental initiatives at the forefront of the responsible development of the metro area."

- Douglas Hooker, Executive Director, Atlanta Regional Commission





"As a source of jobs, revenue, and investment, the program continues to be an asset to Atlanta's sustainability and development goals."

"In 2016, Invest Atlanta provided \$8M in grant funding to Atlanta Better Buildings Challenge participants for installation of energy systems — saving up to 30% of energy costs. As a source of jobs, revenue and investment, the ABBC continues to be a valuable asset for Atlanta."

- Dr. Eloisa Klementich, President & CEO, Invest Atlanta

"The Atlanta Better Buildings Challenge proves that Atlanta is a national leader in resource efficiency and sustainable growth."

"The Atlanta Better Buildings Challenge proves that Atlanta is a national leader in resource efficiency and sustainable growth. Through ABBC, companies like McKenney's have been able to expand the scope of their work, increase their revenue streams, and serve as key partners in the region's energy efficiency goals, reinforcing the program's role as a driver of economic development."

- Hala Moddelmog, President & CEO, Metro Atlanta Chamber



2016 PARTICIPANTS

100 Colony Square 100 Peachtree Street 1100 Spring Street 1180 Peachtree 260 Peachtree 270 Peachtree

270 Peachtree Parking Deck

3344 Peachtree – Sovereign Building

34 Park Tower 3445 Peachtree 3630 Peachtree 400 Colony Square 55 Ivan Allen Plaza 75 Marietta / 84 Walton

A Child's Voice Child Advocacy Center, Inc.

A Friend's House Agnes Scott College

American Cancer Society Center

AmericasMart AMLI Residential

Arts Clayton Administration & Gallery

Atlanta Community Toolbank Atlanta Financial Center Atlanta History Center Atlanta Mission

Atlanta Neighborhood Charter School

Atlanta Plaza

Atlanta Public Schools Atlanta Realtors Center Ballethnic Dance Company

Bank of America Plaza & West Wing Big Brothers Big Sisters of Metro Atlanta

Blue Heron Nature Preserve Buckhead Tower at Lenox Square

Capital City Plaza Centennial Tower

Center for Civil and Human Rights

Centergy One City of Atlanta

Clark Atlanta University CNN Center & Omni Hotel The Coca-Cola Company College Football Hall of Fame

Cox Media Group Eagle Ranch School Embassy Suites Downtown

Emory Healthcare Emory University Epsten Group

Federal Reserve Bank of Atlanta Fernbank Museum of Natural History

FODAC Frazer Center Fulton County Fulton County Schools Gallery Condominium

Gateway Facilities Services, LLC

Georgia Dome

Georgia Institute of Technology Georgia Pacific Center Tower Georgia Power Company Georgia State University

Georgia Tech, Technology Square Research

Building

Georgia Tech, Centennial Research Building Georgia World Congress Center

Grand Hyatt Atlanta

Hartsfield-Jackson Atlanta International Airport

Humane Society of Morgan County

Hyatt Regency Átlanta Jerusalem House Lenox Square Mall

Little 5 Points Center for Arts & Community

Loudermilk Conference Center Lutheran Church of the Redeemer Madison Morgan Cultural Center Metro Atlanta Chamber

Monarch Plaza Monarch Tower Morehouse College

Morehouse School of Medicine

One Alliance Center One Atlantic Center One Buckhead Plaza One Live Oak One Midtown Plaza One Ninety One Peachtree

Peachtree Center

Peachtree Summit Federal Building

Philips Arena Phipps Plaza Mall Piedmont 14

Piedmont Center Buildings

Ponce City Market Premier Academy Promenade

Prominence in Buckhead

Regions Plaza

Reynoldstown Commons

Richard B. Russell Federal Building Sam Nunn Atlanta Federal Center

Southface Spelman College

St. Luke's Episcopal Church Steffen Thomas Museum of Art SunTrust Plaza & Garden Office

T3 Labs

Technology Enterprise Park Ten 10th Street

Ten 10th Street Ten Peachtree Place Terminus 100 Terminus 200

The Forum at West Paces

The Fox Theatre

The Georgia Trust - Rhodes Hall

The Hurt Building

The Peachtree Boys & Girls Club of

Greater Atlanta The Pinnacle

The Salvation Army - William Booth Towers

The Westminster Schools
The Wren's Nest

Tower Place 100
Tower Place 200
Turner Building
Two Alliance Center
Two Buckhead Plaza
Two Midtown Plaza

UPS

Wesley Woods Woodruff Arts Center Woodruff Volunteer Center Zoo Atlanta

Zoo Atl









