“Working with the Atlanta BBC has helped us learn & discover some of the latest technologies & innovations that are available in the energy & water efficiency & sustainability space. We have been able to implement a number of strategies that have resulted in significant financial savings, as well as allowing us to be better environmental stewards of our community.”

Victor R. Clements, The University Financing Foundation, Inc.

**BUILDING SPECS:**
- Owner: TUFF Yamacraw LLC
- Year Built: 2002
- Square Feet: 200,459
- Floors: 5
- Structure: Steel, Glass & Cladding
- Building Use: Office & Research
- No. Of Occupants: 400
- ENERGY STAR Score: 62

www.tsrb.gatech.edu

**TECHNOLOGY SQUARE RESEARCH BLDG.**

**WE TOOK THE CHALLENGE**

**20% WATER & ENERGY REDUCTION BY 2020**

Georgia Tech Research Institute has had a long commitment to high performance buildings and sustainability, and joined the Atlanta Better Buildings Challenge in November 2011. Joining the Atlanta BBC was a commitment not only to the University’s performance, but also to the community as a good citizen helping to carry Atlanta forward. Georgia Tech Research Institute hopes to lead other universities to join the Atlanta BBC and support the effort to help Atlanta become a top-tier sustainable city.

**PROJECTED SAVINGS:**

<table>
<thead>
<tr>
<th>WATER</th>
<th>=</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,293 GALLONS saved annually</td>
<td>31 BATHTUBS* filled each year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENERGY</th>
<th>=</th>
</tr>
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<tbody>
<tr>
<td>1.5M KWH saved annually</td>
<td>644 HOMES powered for one year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOLLARS</th>
<th>=</th>
</tr>
</thead>
<tbody>
<tr>
<td>$100,000 saved annually</td>
<td>HIRING 2 NEW EMPLOYEES each year</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CARBON</th>
<th>=</th>
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</thead>
<tbody>
<tr>
<td>3,590 METRIC TONS saved annually</td>
<td>748 PASSENGER CARS removed from the road for one year</td>
</tr>
</tbody>
</table>
20% REDUCTION STRATEGY BY 2020

Upgrades Categories | # of Opportunities
--- | ---
Lighting Opps | 4
HVAC Controls | 5
Motion/Photocell | 1
Variable Speed Controls | 0
Computer & Server Efficiency | 1
Cooling Tower Upgrades | 0
Urinal | 1
Low Flow Faucets | 0
Insulation & Window | 0
Toilet | 2
Other - Misc.**** | 1

TOTAL: | 15

$61,293 15 $100,000 Annually 1.4 Years

Technology Square Research Building began its retrofit effort just before joining the Atlanta Better Buildings Challenge in late 2011, but quickly benefited from the Atlanta BBC assessment. The Atlanta BBC assessment provided 15 additional energy and water saving solutions that spanned from lighting retrofits to additional controls, with estimated annual savings of over $80,000 per year. The majority of recommendations were operational or controls and sensor changes. The building moved quickly into implementation and has completed all upgrades saving 22% on electricity and water costs as compared to the 2009 baseline.

**Projected savings were determined using www.epa.gov/cleanenergy/energy-resources/calculator.html#results  **based on a 42 gallon tub  ***Estimated figures based on assessments performed as part of the Atlanta Better Buildings Challenge  ****Kitchen equipment, vending machine upgrades, etc

ADDİTİONAL BENEFITS

DOLLARS PUT INTO THE COMMUNITY:***
$61,293

LOCAL BUSINESS SUPPORTED:

McKenney’s Inc.
www.mckenneys.com

Greenspeed Energy
www.greenspeedenergy.com

RESOURCES USED

BUILDING ASSESSMENT:

Southface provided assessment

CLASSES/EVENTS ATTENDED:

The lunch and learn sessions were very beneficial, helping Technology Square Research Building gain a broader understanding of the opportunities and solutions available to help them meet their building performance goals and save on operational costs.