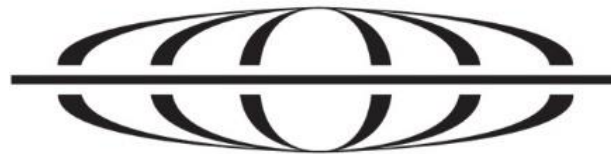


Achieving Greater Savings through Innovative GESPC Projects



GEORGIA

WORLD

CONGRESS

CENTER

AUTHORITY

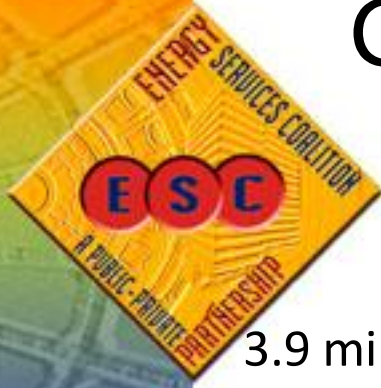


GWCCA
SUSTAINABILITY

Tim Trefzer

October 4, 2018

Georgia World Congress Center



3.9 million SF Total

1.4 million SF of
Exhibit Space

300k SF of Meeting
and Ballroom Space

6,800 Parking Spaces
(4 Decks/3 Surface
lots)

Largest LEED Certified
Convention Center in
the World (LEED Gold)



Centennial Olympic Park



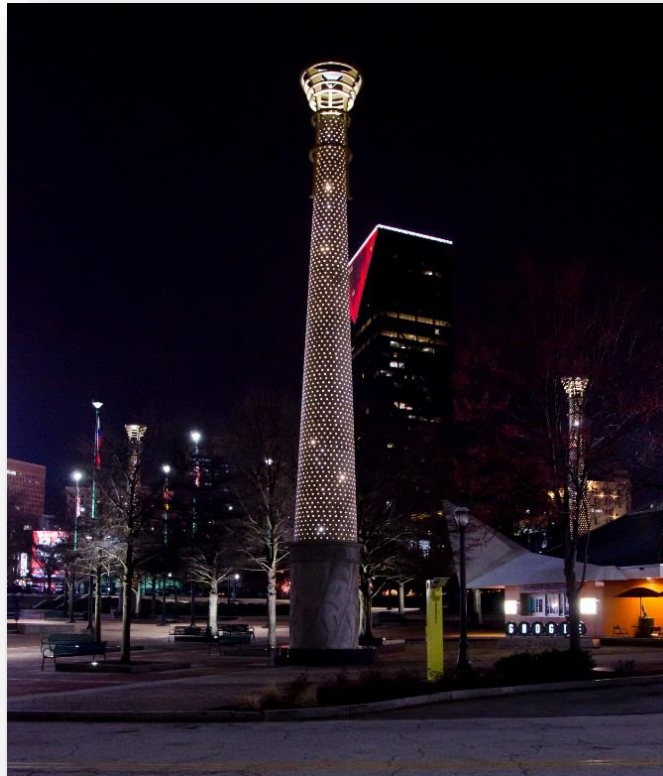
23 Acres

Home to the
Iconic
Fountain of
Rings

Atlanta's
Lasting
Legacy of
the 1996
Olympic
Games



Average Utility Costs



Historical Annual Average

Electric: \$5.5 million

Water: \$1 million

Natural Gas: \$400k

FY18 Budgeted

Electric: \$3.9 million

Water: \$865k

Natural Gas: \$260k

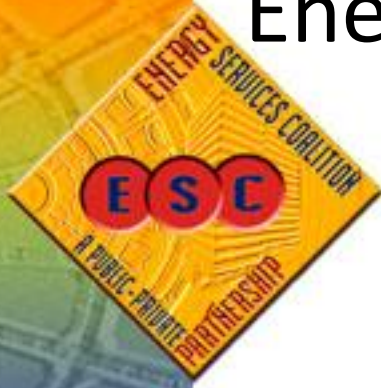
Energy Savings Performance Contract

Our Process



- January 2011: Enabling Legislation
- November 2013: Procurement Process Begins
- August 2014: Trane is Selected as ESCO
- January 2015: Investment Grade Audit Begins
- October 2015: Construction Begins
- April 2017: Construction Ends

Energy Savings Performance Contract



GWCCA's **\$28M** project guarantees **39%** annual utility savings that funds the construction work scope and is financed over **17 years**



Energy Conservation Measures

ECM #	ECM Description	Total Cost	Proposed Savings (Year 1)	Simple Payback (based on Year 1 savings)	Life Expectancy
1	B Central Plant	\$10,488,561	\$646,451	16.22	30 years
2	Interior Lighting	\$9,510,752	\$912,959	10.42	5-30 years
3	GWCC Exterior Lighting	\$3,836,494	\$407,262	9.42	10-20 years
4	C.O.P. Exterior lighting	\$839,247	\$66,864	12.55	10-20 years
5	Water / Kitchen	\$909,526	\$192,427	4.73	25 years
6	Water feature motor upgrades	\$15,586	\$2,150	7.25	25 years
7	Building A & C Retrocommissioning	\$138,663	\$42,698	3.25	15 years
8	Exhibit Hall Lighting	\$2,690,904	\$276,884	9.72	25 years
	TOTAL	\$28,429,733	\$2,547,695	11.16	

Construction Savings

October 2015 – April 2017

All savings generated during this time went directly to GWCCA's
bottom line



\$1,842,241 of energy cost saved

\$422,264 Georgia Power rebates

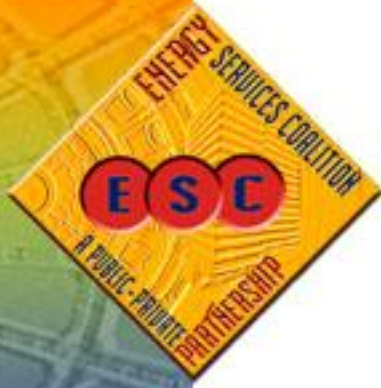
17,810,772 kWh of electricity saved = average annual consumption of **1,781 Georgia homes**

13,704,856 gallons of water saved = amount of water in more than **20 Olympic-sized swimming pools**

536,666 pounds (268 tons) of construction waste recycled = the weight of **18,504,864 empty beverage cans**

Year 1 Performance Period

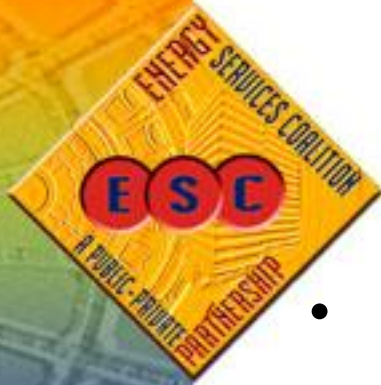
July 2017 – June 2018



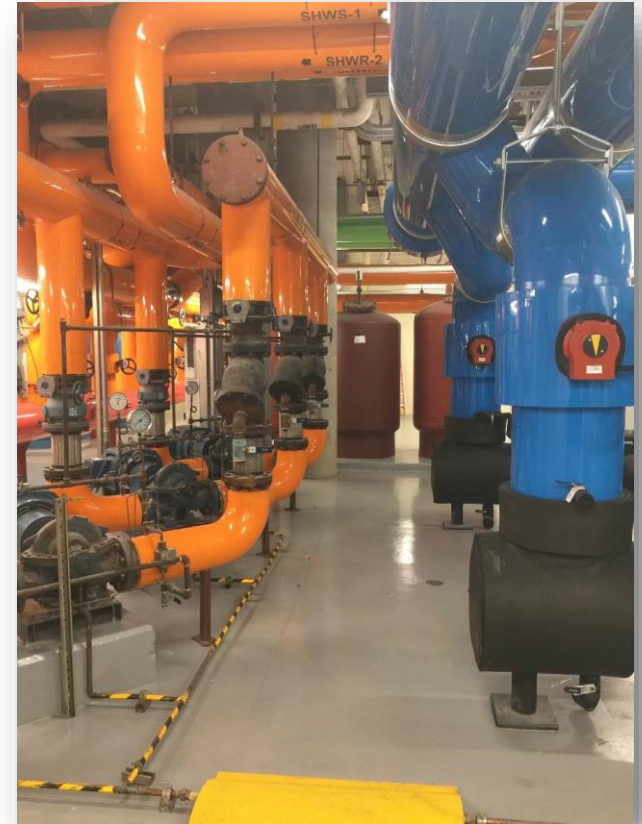
Utility	Guaranteed Savings	Verified Savings	Ahead/(Behind)
Electricity (kWh)	20,995,194	23,014,810	2,019,616
Water (kGallons)	17,437	20,356	2,919
Natural Gas (therms)	243,045	190,973	(52,072)
Total Cost	\$2,044,466	\$2,244,732	\$200,266

43% Utility Savings

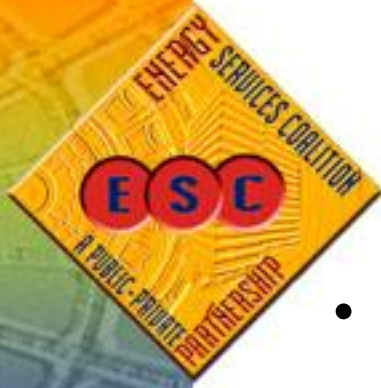
Unique Challenges



- Benchmarking
 - Occupancy
 - Schedule
 - Event Types
 - Weather
- Event and Operational Schedule
- Facility Alterations and Additions
- Financing



Organizational Benefits



- Long-term Partnership with Trane
- Enhanced Customer Experience
- Reliability & Safety
- Operational Improvements
- Financing
- LEED Gold Certification

