



District Five of Lexington & Richland Counties Guaranteed Energy Savings Performance Contracting

February 7th, 2022





Agenda Items

1. CMTA High Level Overview

2. What is GESG

3. Scope of Work and Savings

4. Summer Track Record

CMTA Overview

592 Employees including 159 PEs

21 Offices in 13 States

9+ Million

Square Feet of Zero Energy / Carbon Facility Design

200+ ENERGY STAR Projects

69 with Perfect 100 Scores

55+ Megawatts

Solar PV systems Designed / Installed



Leading The Nation Zero Energy

- ⚡ Largest Portfolio of Zero Energy / Carbon Facilities (50+)
- ⚡ 1st Zero Energy School in the United States (2010)
- ⚡ 1st Zero Energy Project in 9 States and DC
- ⚡ 1st ESCO Funded Zero Energy School (2020)



Agenda Items

1. CMTA High Level Overview

2. What is GESG

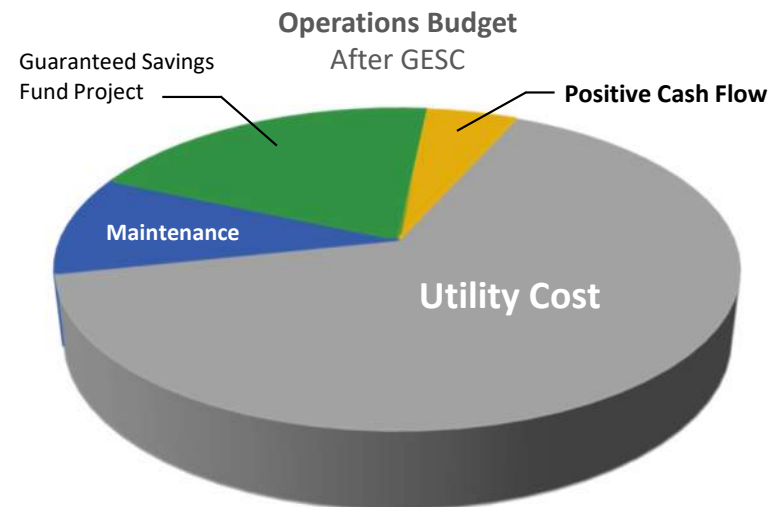
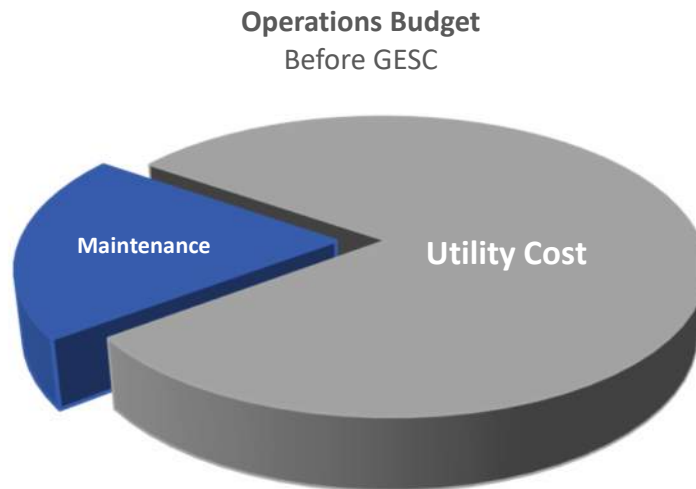
3. Scope of Work and Savings

4. Summer Track Record

What is GESC

Guaranteed Energy Savings Contracts (GESC) –

A financing tool used to reallocate utility savings to make facility improvements



You are paying for the energy upgrades whether you do them or not.



CMTA Results

Guaranteed TRANSPARENCY

Four IPMVP M&V Options



Data
Source

Option A:
ECM
Isolation

Key
parameters
measured

Option B:
ECM
Isolation

All
parameters
measured

Option C:
Whole
Building

Utility
billing data

Option D:
Whole
Building

Simulation
data and
utility
billing data



Guarantee Transparency

Option C:
Whole
Building

Utility
billing data

“Savings are determined by measuring energy use at the whole facility level as compared to the Baseline energy use.”



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Scope of Work

Dutch Fork Elementary

- ✓ HVAC Renovation
- ✓ Building Automation System
- ✓ Lighting LED upgrades
- ✓ PV Solar Array
- ✓ New windows
- ✓ New Gym Roof

Irmo High School – Activities Building

- ✓ HVAC Equipment Replacement (Partial)
- ✓ Building Automation System
- ✓ Lighting LED upgrades
- ✓ PV Solar Array

Scope of Work

Dutch Fork Elementary

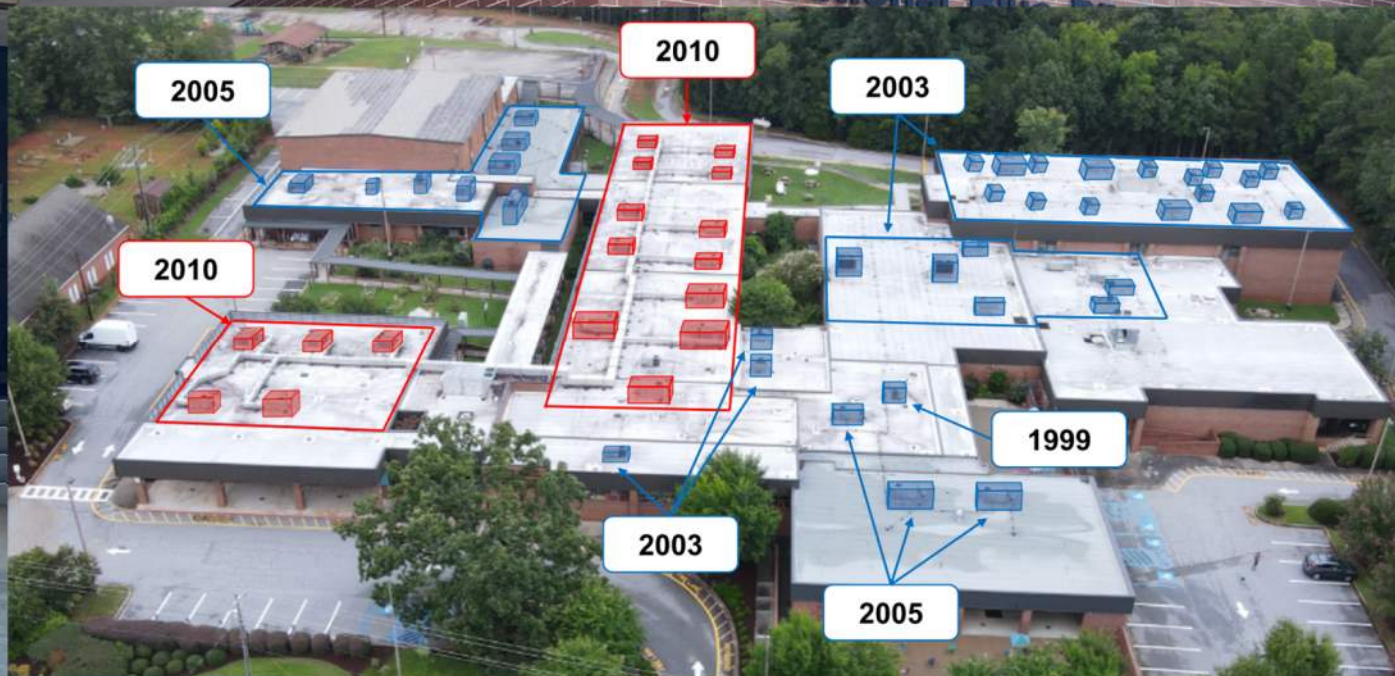
- ✓ HVAC Renovation
- ✓ Building Automation System
- ✓ Lighting LED upgrades
- ✓ PV Solar Array
- ✓ New windows
- ✓ New Gym Roof

DUTCH FORK ELEMENTARY
The Academy of Environmental Sciences
Palmetto's Finest
National Blue Ribbon School
Historic Richlex - Rosenwald
School Site

Scope of Work

Dutch Fork Elementary

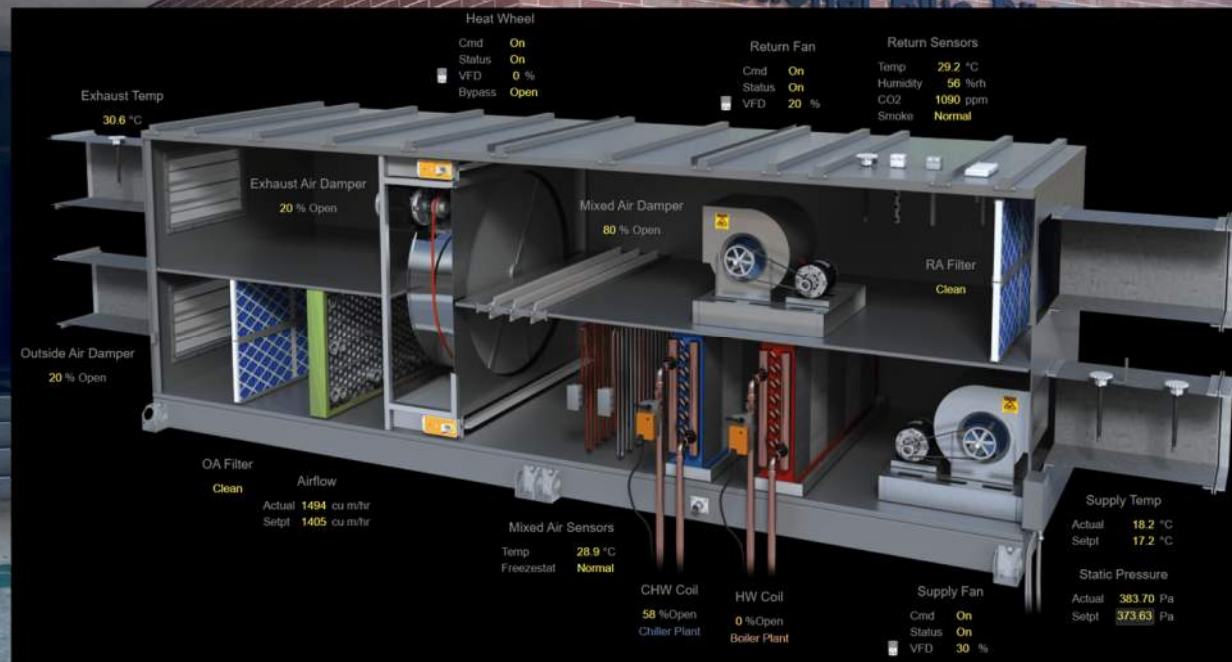
✓ HVAC Renovation (new ceilings, ductwork)



Scope of Work

Dutch Fork Elementary

✓ HVAC Renovation, Building Automation system



Scope of Work

Dutch Fork Elementary

✓ LED Lighting Upgrades



Scope of Work

Dutch Fork Elementary

- ✓ New gym roof and PV Solar array



Scope of Work

Dutch Fork Elementary

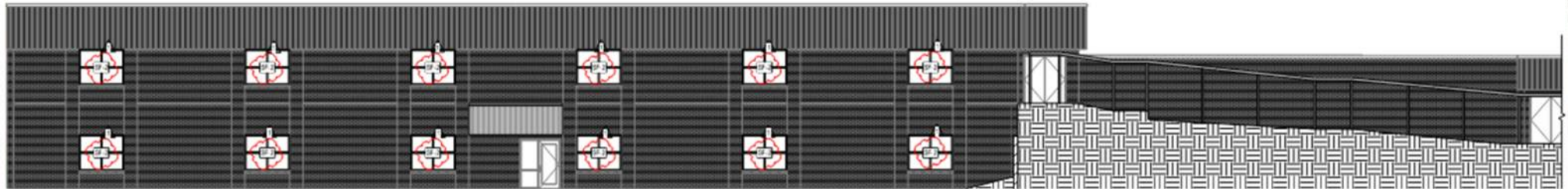
- ✓ New gym roof and PV Solar array



Scope of Work

Dutch Fork Elementary

✓ New windows



Scope of Work

Irmo High School – Activities Building

- ✓ HVAC Equipment Replacement (Partial)
- ✓ Building Automation System
- ✓ Lighting LED upgrades
- ✓ PV Solar Array

\$135,000



Scope of Work

Irmo High School – Activities Building

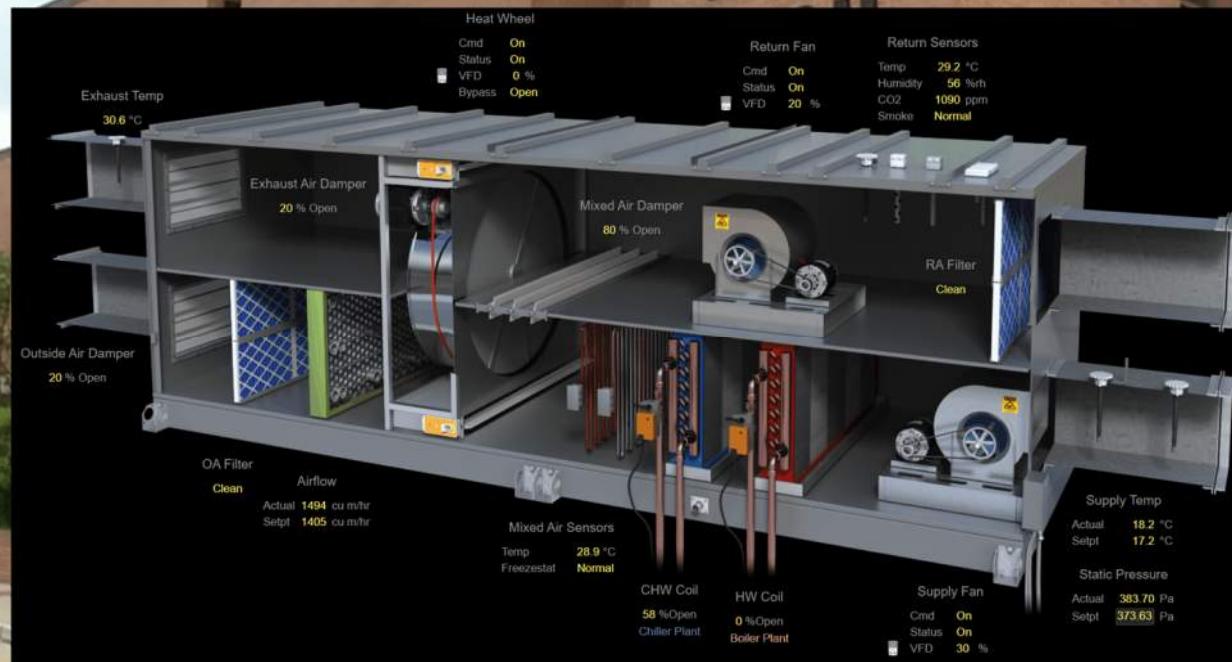
✓ HVAC Equipment Replacement (Partial)



Scope of Work

Irmo High School – Activities Building

✓ HVAC Building Automation System





Scope of Work

Irmo High School – Activities Building

✓ LED Lighting Upgrades



Scope of Work

Irmo High School – Activities Building

✓ PV Solar array





Scope of Work

Dutch Fork Elementary

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Irmo High School – Activities Building

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Energy Saving Guarantee

Option C:
Whole
Building

Utility
billing data

“Savings are determined by measuring energy use at the whole facility level as compared to the Baseline energy use.”

kWh Annual Building Savings		
Contract Year	Dutch Fork Elementary (kWh/Yr)	Irmo High School Activities building (kWh/Yr)
1	251,518	658,409
2	249,785	650,156
3	249,318	647,932
4	248,854	645,720
5	248,392	643,520

Natural Gas Annual Building Savings		
Contract Year	Dutch Fork Elementary (Therms/Yr)	Irmo High School Activities building (Therms/Yr)
1	98	2,115
2	98	2,115
3	98	2,115
4	98	2,115
5	98	2,115



Energy Saving Guarantee

Year 1 Cost Savings	
Electric Savings	\$ 108,008
Natural Gas Savings	\$ 2,621
Rate Change Savings	\$ 9,775
O&M Savings	\$ 19,596
Total	\$ 140,000

Year	Utility Savings	O&M Savings	Total Cost Savings
1	\$120,404	\$19,596	\$140,000
2	\$121,551	\$20,388	\$141,939
3	\$123,598	\$20,796	\$144,393
4	\$125,680	\$21,211	\$146,892
5	\$127,800	\$21,636	\$149,435
	\$619,033	\$103,627	\$722,660



Estimate Rebate	
Lighting	\$ 33,318
HVAC	\$ 10,987
Total Project Budget	\$ 44,305



Project Cost

Project Budget Totals

Project Subtotal:	\$7,521,969
10% Budget Contingency:	\$752,197
Total Project Budget	\$8,274,160
<i>Total Annual Utility Savings</i>	<i>\$140,452</i>

Final Project Total

Project Subtotal:	\$7,882,259
<i>Total Annual Utility Savings</i>	<i>\$140,000</i>

Project Cost

Project Subtotal (Both Buildings): **\$7,882,259**

ADD – RTU 1 and 2 \$48,320
ADD – DFE Tile and grid \$166,152

Final Contract Cost (CMTA) \$8,096,731

District Contingency (3rd party Inspections) \$50,000

Final Cost to the District \$8,146,731





Questions