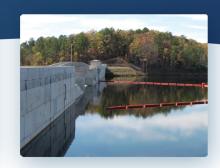


INVESTING IN GEORGIA'S ENERGY, LAND & WATER RESOURCES







Guaranteed Energy Savings Performance Contracting State Program

October 27, 2011



Energy Services Coalition

The Energy Services Coalition (ESC) is a national nonprofit organization composed of a network of experts from a wide range of organizations working together at the state and local level to increase energy efficiency and building upgrades through energy savings performance contracting.

www.georgiaesc.org



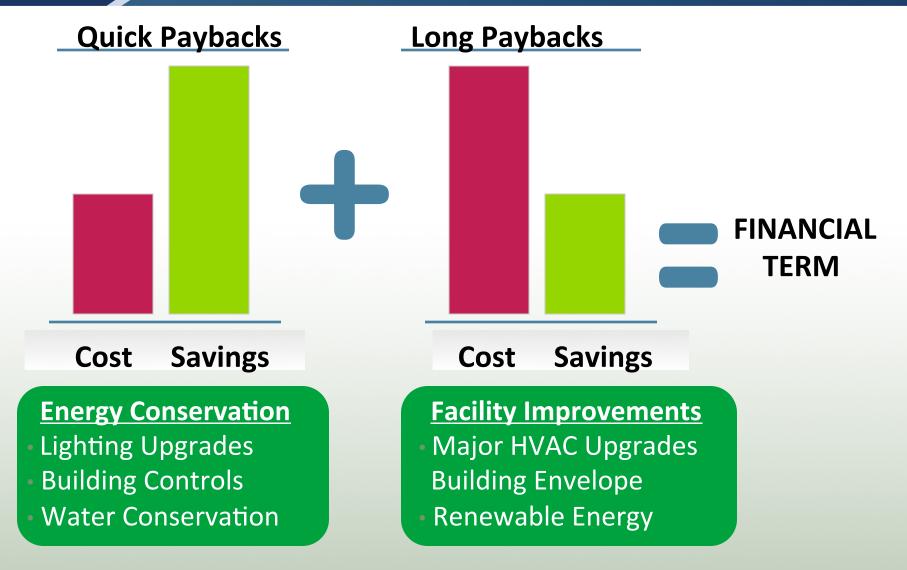


Overview

Guaranteed Energy Savings Performance Contracting (GESPC) serves state agencies and higher education institutions as a tool to implement needed facility improvements while significantly reducing operating costs.

With the passage of Amendment 4 in November 2010, Georgia state agencies are now enabled to use this procurement process. GESPC utilizes available multi-year financing agreements with simultaneous annual savings guarantees, provided by the Energy Services Providers (ESPs); the result is budget-neutral facility improvements.







North Carolina State University

GESPC Value - \$19.7 million

Guaranteed Annual Savings - \$1.7 million

Financial Term - 15 years

Total Square Footage – 1.6 million / 13 buildings

Project Scope

- New Cooling Towers
- Solar Thermal
- Lighting Upgrades
- Water Conservation Measures
- Mechanical System Modifications
- Building Envelope Improvements

- Utility Sub-Meters
- EMS Upgrades
- Lighting System Controls



Virginia Community College System

GESPC Value - \$82 million (4 phases)

Total Guaranteed Annual Savings - \$8 million

Financial Term – 15 years

Total Square Footage – 7 million / 315 buildings (40 campuses)

Project Scope

- Solar PV
- Lighting Upgrades
- DDC Energy Management
- Boiler & Chiller Replacements
- Steam to Hot Water Conversion
- New Hot Water Pumps
- Variable Frequency Drives
- Piping Replacements

- Thermal Storage
- Weather-stripping
- Electrical Fuse Replacements
- Fan Coil Replacements
- Water Conservation Measures
- Window and Door Replacements
- Roof Replacements
- Retro-Commissioning



East Texas Baptist University

GESPC Value - \$531,000

Guaranteed Annual Savings - \$70,794

Financial Term – 10 years

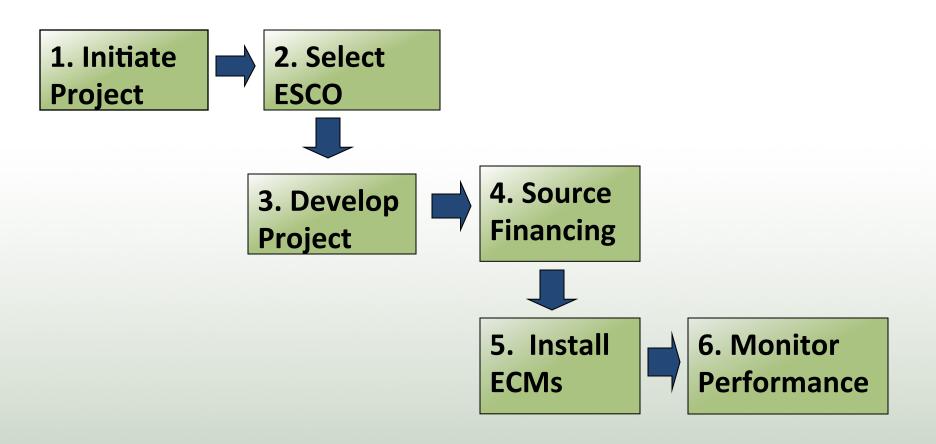
Total Square Footage – 335,100 / 14 buildings

Project Scope

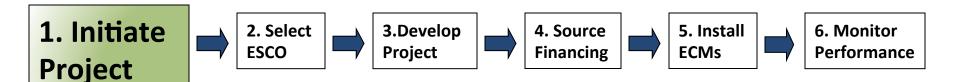
- Lighting Upgrades
- DDC Energy Management System
- Mechanical System Upgrades
- New Chillers
- New Boilers
- New Air Handler Units



GESPC Procurement Process

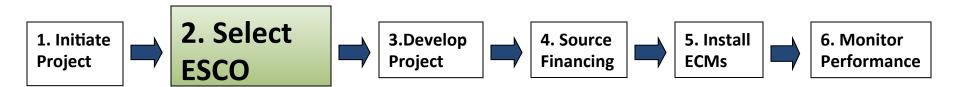






- 1.1 Institution determines the need for contractual ESCO services.
- 1.2 Institution submits a written request to GEFA to issue a Request for Expressions of Interest (EOIs) to Pre-Qualified ESCOs.
- 1.3 GEFA accepts Institution's Request.
- 1.4 GEFA receives EOI responses from interested ESCOs.
- 1.5 GEFA distributes EOIs to Selection Panel.





- 2.1 Selection Panel Develops Short List of ESCOs (3-5)*
- 2.2 Institution develops and issues RFP to short-listed ESCOs*
- 2.3 ESCOs complete preliminary audits and submit proposals
- 2.4 Evaluation Committee scores the RFP submittals* Institution can walk at no cost if the preliminary proposals are not acceptable.
- 2.5 GEFA uses scores to determine Final ESCO Selection

^{*}GEFA's offer of assistance





- 3.1 Institution executes Audit Agreement with Selected ESCO.
- 3.2 ESCO conducts Investment Grade Audit (IGA)
- 3.3 Institution approves IGA scope of work and design*
- 3.4 Financial Officer reviews and approves for fiscal responsibility (If Institution decides not to proceed, ESCO is reimbursed for IGA cost)
- 3.5 Institution finalizes GESPC and routes for signatures. By statute, GEFA must approve all GESPCs.





- 4.1 The Board of Regents requests that GSFIC obtain financing.
- 4.2 GSFIC issues RFP to pre-qualified lenders.
- 4.3 GSFIC selects best offer for project financing.
- 4.4 Institution issues Notice to Proceed to ESCO to begin construction.





- **5.1 ESCO begins construction process.**
- 5.2 Institution monitors construction with assistance from the Board of Regents and GEFA, if requested.
- 5.3 ESCO receives progress payments, upon Institution's approval.
- 5.4 Institution accepts and approves final project completion.





- **6.1 Guaranteed Savings Period Begins.**
- 6.2 Ongoing project monitoring to verify contracted savings
- 6.3 Institution adheres to contractual O&M.
- 6.4 Institution informs ESCO of any significant changes in operation that could affect the savings calculations.
- 6.5 ESCO submits regular energy savings reports. Institution reviews and addresses any issues with ESCO.*



Potential Candidates for GESPC

Annual Utility Costs in excess of \$250,000

- Access to Utility Data (24-36 months)
- Aging/Problematic Equipment
- Energy Intensity Usage
- Outdated Systems/Technology
- Noticeable Energy Waste
- Limited Staff/Expertise/Funding
 Environmental Concerns



Preparing for GESPC – Suggestions

- ✓ Assign Representative /PM
- ✓ Select Project Buildings for RFP
- ✓ Compile Most Recent Utility Data
- ✓ Collect Facility Information
- ✓ Assemble List of Items to be Addressed
- ✓ Submit GEFA Application / Technical Facility Profile



Next Steps.....

- ☐ Selection of State Pre-Qualified ESCOs
- **□ GSFIC** Selection of Financial Lenders
- ☐ Workshops and Training



Questions?

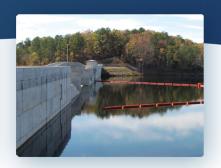




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Category	Bid & Spec	GESPC
Funding	 Energy projects must compete for limited budget resources Insufficient funding for comprehensive energy project Cost overruns may reduce scope 	 Comprehensive energy project is 100% funded from the existing operating budget; no upfront capital required. Guaranteed maximum price; no change-orders
Staffing	 Limited staff or lack of expertise High staff costs due to a piece-meal approach to bidding and managing each separate project 	■ ESP provides single-source accountability and technical expertise to audit, engineer, implement, and ensure project performance



Category	Bid & Spec	GESPC
Project Performance	 Multiple contracts with multiple vendors can result in conflicting project requirements Lowest first cost equipment selections 	 One contract; single source of accountability for project design, implementation, and performance Comprehensive project implementation maximizes savings design opportunities
Savings	 No energy savings guarantee No Measurement & Verification to document energy reduction 	 Long-term energy savings are contractually guaranteed M&V services reduce risk of savings erosion over time