# Performance Contracting

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### Terms and Acronyms

- Performance Contract
  - Guaranteed Energy Savings Agreement
  - Energy Savings Performance Contract
- > ESCO Energy Service Company
- > RFP Request for Proposal
- > IGA Investment Grade Audit
- ➤ M&V Monitoring and Verification
- > ESA Energy Services Agreement
- > ECM Energy Conservation Measure
- > LGC Local Government Commission

## What is Performance Contracting

- ➤ An ESCO designs and proposes a package of energy cost reduction measures, installs or implements those cost reduction measures, and guarantees the savings of the cost reductions.
- ➤ The issuer pays for the package over time using the stream of revenue provided by the energy reduction measures
- > Third party monitoring and verification

## Why not do it yourself?

- Often opportunities to reduce energy costs are well known but owners are unable to take advantage of them
  - Capital
  - Expertise
  - Manpower
- Can you guarantee the savings?

### Performance Contracting Advantages

- A Design-Build process with a single point of responsibility
- Provides capital
- Provides engineering and project management expertise
- No reduction in utility funding over project life
- Guaranteed performance/savings

### Performance Contracting Intangibles

- Improved lighting quality
- > HVAC
  - Improved indoor air quality
  - Improved occupant comfort
- Potentially provide educational / teaching opportunities
  - Dashboards
- Energy Star
  - Building labeling

### Performance Contracting Pitfalls

- > Failure of owner to perform due diligence
- > Failure to understand contract
- Overly optimistic expectations / promises
  - > RFP
  - > IGA
  - >M&V
- Time must be allocated to see process through

## Identify a Project

- ➤ Building energy costs greater than \$1.50/sq ft
  - ➤ Annual utility costs greater than \$300,000
- > 100,000 sq ft or greater
- Building use and occupancy stable
  - No significant renovations or additions planned
- ➤ In NC contracts have ranged from \$400,000 to \$60,000,000

## Steps to a Successful Project

- ➤ The State Energy Office will provide assistance during each step of the process
- All documents and steps must conform to General Statues and North Carolina Administrative Code

## Steps to a Successful Project

- > Assemble stakeholders
- Create data packet for project (Application)
- > Issue RFP
- Evaluate responses (select ESCO)
- ➤ Negotiate and Perform IGA
- Negotiate contracts
  - > ESCO contract
  - Financial contract
- Local Government Commission approval or
- Council of State approval

#### Assemble Stakeholders

- Convene a project team consisting of:
  - Engineering
  - > Finance
  - Maintenance & operations
  - Administration
  - Purchasing & Legal
  - Building occupants
- ➤ The State Energy Office will provide assistance to the team

### Project Data Packet

- Create project scope
  - 3 year billing history for project building(s)
  - Occupancy, use and schedule
  - > Indoor air requirements
  - > Temperature and humidity requirements
  - Lighting level requirements
  - Prior audit or survey reports
  - Schematics/prints and equipment lists
- This packet will serve as the application to SEO

### The Request For Proposals

- > SEO has a template available for use
- Specify any special circumstances (security, building schedule - work schedule conflicts etc.)
- Mandatory onsite meeting
  - Schedule building walk through (site visit)
  - Data packet available to all ESCOs
  - Specify evaluation method and criteria
  - Deadline for responses (give adequate time)
- ➤ All questions should be handled in writing with both questions and answers available to all responders.

#### RFP Evaluation & ESCO Selection

- Cost benefit analysis performed for each option
- Substantial conformity with RFP
- Guaranteed savings and contract period
- Project cost and time to complete
- Product quality manufacturers warranties
- > Check references

#### RFP Evaluation & ESCO Selection

- Create short list of responders for oral interview
  - Allow each ESCO a set amount of time to describe their company
  - > ESCO may only clarify response not improve it

#### Investment Grade Audit

- > SEO has a sample contract
- > Audit within 10% of RFP calculations
  - Yes issuer at risk for cost if project terminated
  - No ESCO at risk for cost if project terminated
- M&V methodology must be stated and conform to:
  - The "International Performance Measurement and Verification Protocol"
- Certification by registered engineer that M&V protocol presented is capable of measuring actual savings
  - May wish to engage same group that will do independent third party M&V for year end validation & reconciliation of savings

## Energy Service Agreement

- > ECMs and their installation
  - Specify conditions required: lighting levels, temperature & humidity, water temperature, indoor air quality etc.
  - Specify equipment capacity, operating range maintenance requirements etc.
  - ESCO provides many of the equipment details but owner must be satisfied that all of the items specified are acceptable

## Energy Service Agreement

- ➤ Maintenance contract
  - Owner may contract with third party for maintenance service
  - > The ESCO may provide the maintenance service
  - > The owner may provide maintenance
  - Cost of the maintenance contract is to be included in the total project cost

#### The Guarantees

- Construction bond
  - The construction bond ensures the equipment is delivered as specified, properly installed and properly commissioned
  - The construction bond will cover the cost of the project completion if for any reason the contractor is unable to complete the project

#### The Guarantees

- Guaranteed savings bond
  - This bond is a standing guarantee that all of the guaranteed savings specified in the contract can be paid
  - The ESCO "shall provide security to the governmental unit in the form acceptable to the Office of the State Treasurer and in an amount equal to 100% of the total cost of the guaranteed savings contract"

#### Measurement & Verification

- Actual savings measured are compared to guaranteed savings by third party
- If actual savings less than guaranteed savings, ESCO pays the difference to the governmental unit
- The cost of the required third party M&V is to be included in the contract

#### Assistance Available From SEO

- ➤ List of pre-qualified ESCOs
- Application assistance (project identification)
- > Standard RFP available
- Standard Investment Grade Audit Contract available
- Standard Energy Services Agreement available
- Proposal and IGA Evaluation available
- List of qualified engineering service / M&V providers

### Legislative Basis

- ➤ General Statute Article 3B 143-64.10 through 143-64.17L
- ➤ General Statute Article 8 142-60 through 142-70
- ➤ North Carolina Administrative Code 01 NCAC 41B.0101 through 41B.0901
- LGC Application for Approval of Guaranteed Energy Savings Contracts

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## Thank You for Attending

