



Georgia Environmental Facilities Authority



ARRA - American Recovery & Reinvestment Act of 2009



Call Specifics

- Please use the chat feature on your web meeting to submit questions during our call
- Questions will be addressed intermittently during the call
- If you must leave please do not put the call on hold; you may subject everyone to music
- A recording of the call and supporting documents will be available after the call

Presenters

- David Godfrey, GEFA
- Danny Elijah, GSFIC
- Nathan Jones, GSFIC
- Rey Palma, GSFIC
- Andrew Ladd, GEFA
- PJ Newcomb, GEFA

Points To Cover

- Where we are in the process
- GEFA and GSFIC roles in the project
- Overview of the contracting process
- Introduction and overview to reporting
- Preview proposed measurement and verification components of the projects
- Review the timeline for funding distribution and contract completion

Where we are in the process

- Projects have been selected
- GEFA has obtained all of the funding
- GEFA and GSFIC signed an IAA
- GEFA and USG signed an IAA
- GSFIC will provide support to state agencies' approved for ARRA funding
- USG Facilities Office will admin USG funded projects



Questions?

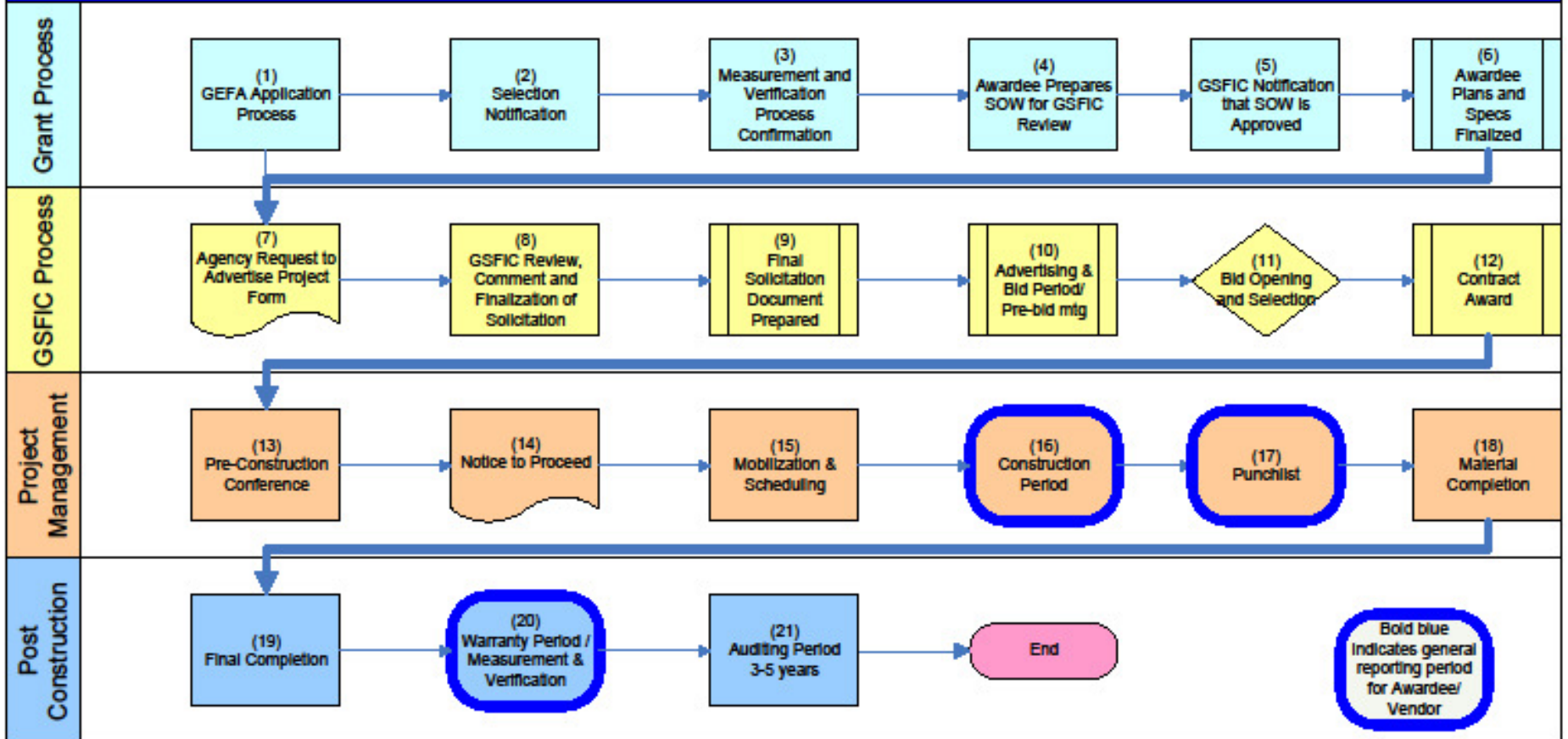
Basic Services

- GSFIC will provide procurement and project management services
- GSFIC will consult with agencies receiving ARRA awards from GEFA on the scope of the energy improvement projects.
- GSFIC will assess the potential for consolidating procurements and construction of similar projects among different agencies.

Basic Services

- GSFIC will consult with agencies for suggested design professionals and select according to established procedures and ARRA requirements.
- GSFIC will solicit competitive ITB, RFQ or RFP's.
- GSFIC will consult with Agencies for suggested vendors to receive bid notices.
- GSFIC will evaluate, and select vendors according to existing state procurement and ARRA guidelines/policies
- GSFIC will post all open solicitations to the Georgia Procurement Registry (GPR).

GEFA/GSFIC - Energy Grants Contracting Program



(3) Measurement & Verification Process Confirmation

- Coordinate through GEFA (ARRA funds can be used if requested in original application)
- Compliance with IPMVP and/or approved variation
- Agency can self perform M&V or contract out to vendor
- A preliminary M&V Plan will be reviewed by GSFIC in consultation with GEFA prior to execution of contract
- GEFA notifies Agency of approved preliminary plan

(4) Awardee Prepares SOW for GSFIC Review

- Draft Scope of Work (SOW) prepared by Agency for GSFIC review (ARRA funds can be used if requested in original application)
- Project allocation shall be all inclusive; no contingency above awarded amount
- Agency will include approved SOW in project manual

(6) Awardee Plans & Specs Final

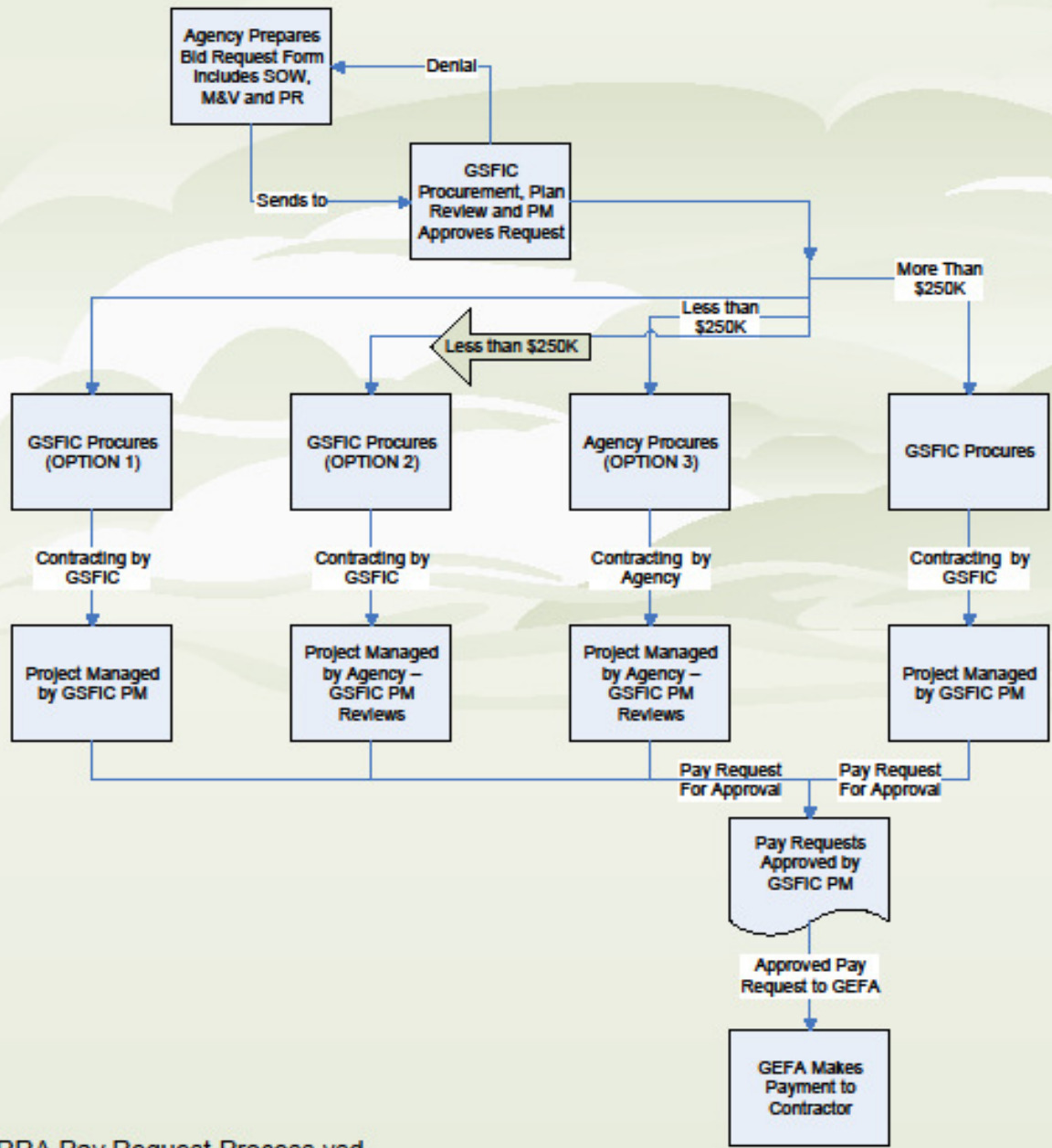
- Fully complete plans and specs are sent to the GSFIC Design Review Group
- Plans and specs receive GSFIC approval



Questions?

(7) Agency Project Request Form

- The “Agency Project Request Form” is completed by the Agency
- The form is submitted to Procurement with all required documents attached, e.g., SOW, Plans and Specs, Programming/Concept Docs, etc.
- This form will be made available shortly



ARRA PAY REQUEST PROCESS



(8) GSFIC Review, Comment and Finalization of Solicitation

- GSFIC will receive and process the requesting agency's full solicitation package
- GSFIC will ensure package compliance with ARRA requirements

(10) Advertising & Bid Period

- Projects will be advertised to the GPR – Georgia Procurement Registry
- The bid period will generally be 30 consecutive calendar days unless otherwise allowed
- A pre-bid conference may be held
- Changes will be managed by addenda

(10) - Continued Advertising & Bid Period (Topics)

- Buy American
- Reporting Requirements
- DUNS
- CCR
- Copeland Act
- Davis Bacon
- Self-performance of work process
- Subcontracts
- Neutrality-Open Competition
- IG/DOE Audits
- Field Audits
- GSFIC Guidelines

(11) Bid Opening & Selection

- Bid openings will be publicly held
- Award shall be to the lowest, responsive, and responsible bidder
- Contracting shall be promptly after evaluation and confirmation of Awardee compliance with all ARRA requirements

(12) Contract Award

- GSFIC/Agency will prepare all contract documents for signature
- Contract will be between vendor/service provider and GEFA

(13) Pre-Construction Conference

- GSFIC will schedule and host the pre-construction conference
- ARRA compliance matters will be discussed
- Form of payment will be discussed
- Sub-Contractor use will be discussed



Questions?



(16) Introduction and Overview of Reporting

2 Reporting Avenues Required Quarterly

ARRA – 1512

Due between the 1st & 5th day after each quarter

Department of Energy - Attachment 2

Due between the 1st & 15th day after each quarter

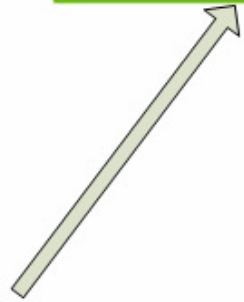
Both will be done online from a web browser

State of Georgia ARRA SEP Reporting

Project to GEFA to DOE Process Flow



State Energy Program



 **GEORGIA STATE FINANCING & INVESTMENT COMMISSION**

Approve



**ARRA 1512
&
DOE Attachment 2
Online Reporting
Systems**

Review



Project Data
Entry

**Project
Vendors
&/or
Service
Providers**

Certify



(16) Introduction and Overview of Reporting

Reporting Data

Office of Management and Budget – 1512

- Jobs Created & Retained
- Total # and \$ Amount of payments made less than \$25,000
- In some cases, sub-recipient top 5 Officers Names and Compensation

(16) 1512 Reporting Interface Screen Shots

Sub Recipient Report: Grant or Loan

Sub Recipient Information	
Sub Recipient DUNS Number*	<input type="text"/>
Sub Recipient Email Address	<input type="text"/>
Sub Recipient name	<input type="text"/>
Sub Recipient Address1	<input type="text"/>
Sub Recipient Address2	<input type="text"/>
Sub Recipient Address3	<input type="text"/>
Sub Recipient City	<input type="text"/>
Sub Recipient State	<input type="text"/>
Sub Recipient Zip Code	<input type="text"/>
Sub Recipient Country	<input type="text"/>
Sub Recipient Congressional District	<input type="text"/>

CERTIFICATION
In reliance upon certifications to me by others and after reasonable inspection and review, I certify that the foregoing is correct to the best of my knowledge.

Date:

Name:

Title:

Certification

Sub Award/Contract/Grant Number

Sub Recipient Highly Compensated Officers	
Sub Recipient Indication of Reporting Applicability*	No
Officer name	Compensation
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Sub Award Information							Sub Recipient Place of Performance					
Report Period	Award ID	Amount	Total Disbursed	Award Date	Number of Jobs	Address 1	Address 2	City	State	Zip Code+4	Congressional District	Country
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Total # of vendors disbursed under \$25k Total amount for vendors disbursed under \$25k

<input type="text"/>	<input type="text"/>
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(16) 1512 Reporting Interface Screen Shots

Sub Recipient Report: Grant or Loan

Sub Recipient Information

Sub Recipient DUNS Number*	123456789
Sub Recipient Email Address	ray@pafa.ga.gov
Sub Recipient name	Ray Hunter
Sub Recipient Address1	233 Peachtree
Sub Recipient Address2	Hanna Tur
Sub Recipient Address3	Suite 800
Sub Recipient City	Aclenca
Sub Recipient State	GA
Sub Recipient Zip Code	303031506
Sub Recipient Country	USA
Sub Recipient Congressional District	05

CERTIFICATION

In reliance upon certifications to me by others and after reasonable inspection and review, I certify that the foregoing is correct to the best of my knowledge.

Date: 9/22/2009

Name: Ray Hunter

Title: Systems Administrator II

Certification

Sub Award/Contract/Grant Number

Sub Recipient Highly Compensated Officers

Officer name	Compensation
Ray Hunter	\$100,000.00
Tim	\$50,000.00
Frank	\$25,000.00
Jim	\$80,000.00
Tom	\$5,000

Sub Award Information

Report Period	Award ID	Amount	Total Disbursed	Award Date	Number of Jobs	Address 1	Address 2	City	State	Zip Code+4	Congressional District	Country
09/20/2009	2F-9542340...	\$75,000.00		2009-09-27 00:00	2							

Sub Recipient Place of Performance

Report Period	Award ID	Amount	Total Disbursed	Award Date	Number of Jobs	Address 1	Address 2	City	State	Zip Code+4	Congressional District	Country

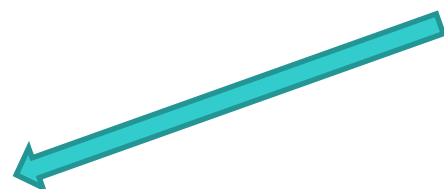
Summary

Total # of payments to vendors under \$25k	Total amount for vendors disbursed under \$25k
1	\$22,564.21

Vendor (For Vendors disbursed over \$25,000.00)

Vendor Name	Vendor DUNS Number (optional)	Vendor Headquarters' Zip code + 4	Amount disbursed to Vendor	Sub Award Reference	Vendor Reporting Period
Miller IT	321654987	303215164	\$50,000	Newcast	09/30/2009

Changeable Fields



(16) 1512 Reporting Information

For a demo video, slides, & a PDF
in regard to 1512 Reporting go to:

<http://www.gefa.org/index.aspx?page=491>

(16) Introduction and Overview of Reporting

Reporting Data

DOE – Attachment 2

- Phase of the Project & % Complete
- # of Buildings Retrofitted-to-Date
- Square Footage Retrofitted-to-Date
- Jobs Created & Retained
- Management Analysis
- Energy Savings (only after M&V)

(16) DOE Reporting Interface Screen Shots

aladd test *US Department o... - State of Georgia, ARRA Funded, Energy Retrofit Projects Status - Windows Internet Explorer

https://www.quickbase.com/db/beua2rzwi

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aladd test *US Department of Energy ARRA Reporting AGENCY USERS ECM DOE REPORTING

State of Georgia, ARRA Funded, Energy Retrofit Projects Status Dashboard

Customize this Page

Agency ECMs

FULL REPORT | GRID EDIT | EMAIL | PRINT | OTHER

Results 1 to 135 (out of 135)

ECM ID #	Category	Project Name	Project Location	Budget	Update
Agricultural Exposition Authority, Georgia 2 ECM					
UPDT VIEW 136	Lighting	Lighting System Upgrades and HVAC Remediation	Georgia National Fairgrounds & Agricenter	\$360,411	Update Quarterly Metrics
UPDT VIEW 261	Building Envelope	Seal Coat Application for Conditioned Buildings Roofs	Various Locations	\$463,665	Update Quarterly Metrics
TOT				\$824,076	
Agriculture, Georgia Department of 1 ECM					
UPDT VIEW 137	Lighting	"Growing Green in Georgia" - Georgia Farmers' Market Energy Improvement Project	Various Farmers' Markets	\$1,200,000	Update Quarterly Metrics
TOT				\$1,200,000	
Building Authority, Georgia 4 ECM					
UPDT VIEW 79	Controls	GBA- Central Energy Plant - Replacement of 3, 1250 tonchillers with new high efficiency chillers and complete chiller plant demand flow optimization	Various Locations	\$1,116,068	Update Quarterly Metrics
UPDT VIEW 159	Mechanical	GBA - 2Peactree Facility Energy Conservation projects, 2 Pump/VFD replacements and a High Efficiency Domestic	2 Peachtree Street Tower Building	\$493,000	Update Quarterly Metrics

(16) DOE Reporting Interface Screen Shots

aladd test *US Department of Energy ARRA Reporting - Add DOE Reporting - Windows Internet Explorer

https://www.quickbase.com/db/beua2rzwn?a=API_GenAddRecordForm&_fid_6=136&z=dy5

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aladd test *US Department of Energy ARRA Reporting

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aladd test *US Department of Energy ARRA Reporting AGENCY USERS ECM DOE REPORTING

GEFA SEP Program Status Quarterly Report

Reporting Quarter: Quarter 4 - 2009
Date Submitted: 12-04-2009

PROJECT INFORMATION

Agency Agricultural Exposition Authority, Georgia	ECM Project # 136	Project Name Lighting System Upgrades and HVAC Remediation
Category Lighting/Fixtures	Total Budget for Project \$360,411	

ECM Description
Lighting System upgrade and retrofits -The Georgia Agricultural Exposition Authority performed a detailed evaluation of the lighting systems currently in place throughout 13 buildings and determined there are significant opportunities for electrical energy savings by installing energy efficient fixtures and bulbs and motion sensors. The Georgia Agricultural Exposition Authority proposes converting 900 metal Halides (ranging from 465W-1000W) to 1,071 T8 fluorescence fixtures (221W). It is estimated that these lights will reduce energy consumption by 59% while adding 35% more light levels. Furthermore, these lights burn at 98 degrees vs 1200 degrees, and thus reduces HVAC costs by keeping the building "cooler". Additionally 60 motion sensors will also be installed that will allow lights to operate only when there is activity in the area. Another benefit and anticipated savings, although not "energy-related", will be in annual maintenance savings of \$9,300 in labor and parts.

Project Lead Information:

TELL US HOW YOU HAVE PROGRESSED?

(16) DOE Reporting Interface Screen Shots

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https://www.quickbase.com/db/beua2rzwn?a=API_GenAddRecordForm&_fid_6=136&z=dy5

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★ Favorites | ★ Commuter Rewards | Online Classical Radio Statio... | ABP Timesheet | TWC Decatur Weather | EarthlinkWeb Mail | Pandora Radio | Quickbase | CAP EnergyCAP

aladd test *US Department o... - Add DOE Reporting

GEFA STATE ENERGY PROGRAM: STATUS REPORTING

Customize Share Recent Find Help

Signed in as Andrew Ladd MY QUICKBASE

aladd test *US Department of Energy ARRA Reporting

AGENCY USERS ECM DOE REPORTING

TELL US HOW YOU HAVE PROGRESSED?

+ with Green text indicates a line that needs to be updated
A red * indicates a required field

Project Phase & Completion

+ Phase * Current Phase of the Project: Design ? * % Completion of Current Phase

+ Whole * % of Project Completed

Less than 25%
More than 25% but Less than 50%
More than 50% but Less than 75%
More than 75% but Less than 100%
100%

Plan vs. Actual-to-Date

The numbers for Plan-vs.-Actual should be reported as cumulative figures for the project as a whole, not just for this quarter.

In the approved application you planned called for the following # of buildings to be retrofitted resulting in this amount of square feet being

Internet 100%



Questions?

(20) Measurement and Verification

- Each project or energy conservation measure awarded will need to include approved form of measurement and verification of energy savings
- International Performance Measurement and Verification Protocol (IPMVP) 2007
 - International Performance Measurement and Verification Protocol (IPMVP)

(20) Measurement and Verification

Energy Savings = (Baseline Energy Use) – (Post-Retrofit Energy Use) + /– (Adjustments)

Baseline Energy Use = (Baseline System Performance) x (Baseline Operating Hours)

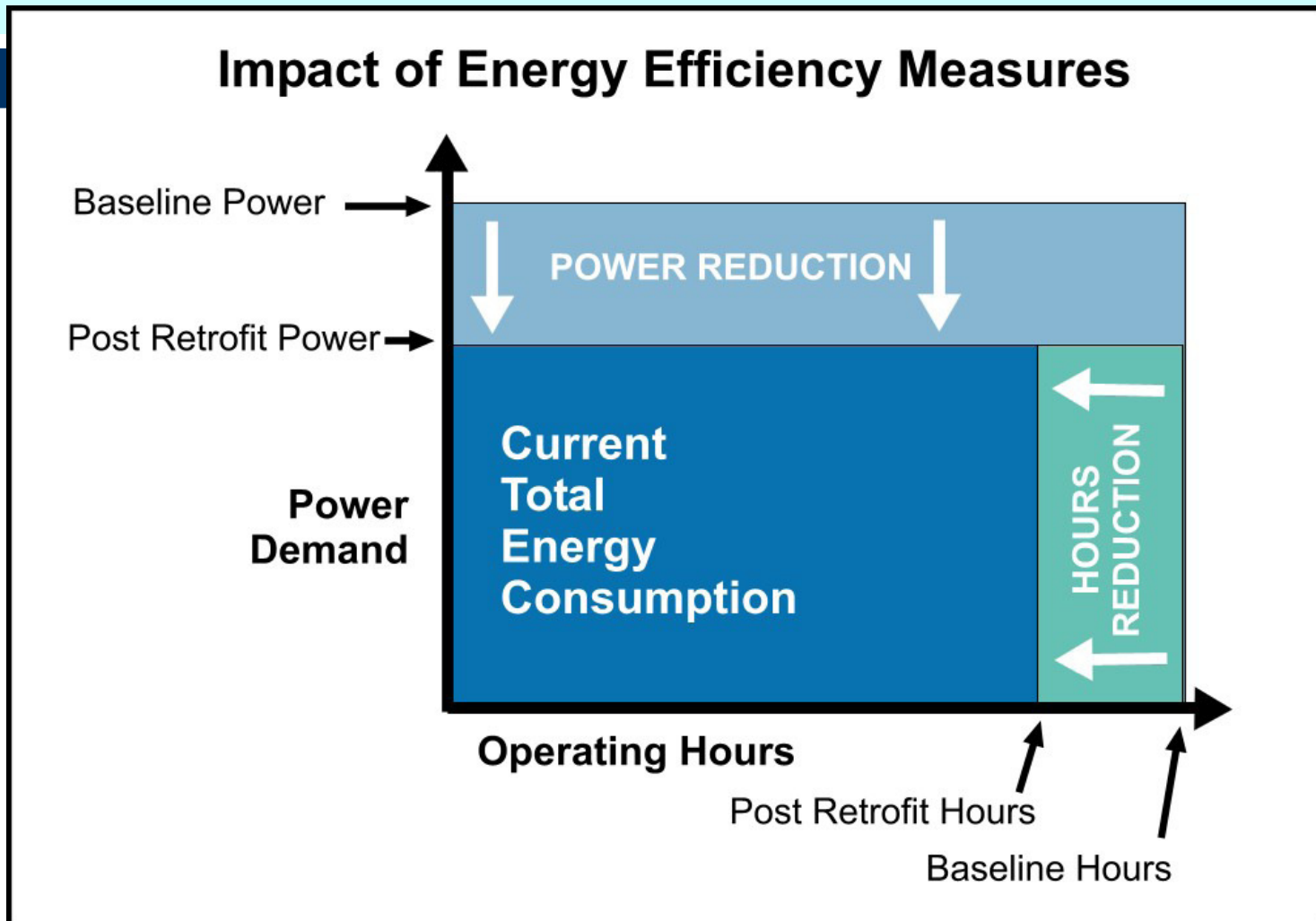
Post-Retrofit Energy Use = (Post-Retrofit System Performance) x (Post-Retrofit Operating Hours)

(20) Measurement and Verification

Performance = efficiency or rate of energy use of system/equipment

Operating Hours = the total time that a system/piece of equipment runs

(20) Measurement and Verification



(20) Measurement and Verification

- **Option A**—Retrofit Isolation with Key Parameter Measurement
- **Option B**—Retrofit Isolation with All Parameter Measurement
- **Option C** – Whole Bldg Utility Data Analysis
- **Option D**—Calibrated Computer Simulation

(20) Measurement and Verification

- Recommendations:
 - ECMs with projected annual savings < \$10,000/yr can use engineering calculations instead of an official IPMVP method.
 - Lighting projects typically **Option A**, perhaps **B**
 - Medium and large controls (excl. metering) & mechanical projects within a single building or central plant: **Option B** (where practicable)
 - Metering, Commissioning, Building Envelope, and Multi-building Controls projects: **Option C** (10% rule)

(20) Measurement and Verification

Self-performance M&V: requires agency to complete plan (may include GEFA/GSFIC assistance)

Procurement Services - RFPs should contain M&V requirements, specifically requesting:

- Preliminary/Proposed M&V Plan (including cost estimate)

Energy Savings Report is required under both methods of performance

(20) Measurement and Verification

Measurement and Verification (M&V) Plan

1. A description of the ECM and its intended result
2. Intended M&V option to be used
3. How baseline data will be determined
 - a) Parameters to be measured (also, when and for how long),
 - b) Parameters to be stipulated (agreed to, held constant)
 - c) How & why the baseline may be adjusted (weather, occupancy, etc.)
4. Measurement methods and equipment to be used
5. Schedule for all M&V activities
6. Who will conduct the M&V activities
7. Commitment to providing Energy Savings Report - methods, assumptions, calculations, and results of the M&V
8. Costs of M&V operations and equipment



Questions?

Timeline

- Sign IAA Nov 24
- Contract templates finalized Early Dec
- Vendor presentation Dec 15
- Begin contracting the Work Mid Jan
- All work to be completed NLT 3/31, 2012

Contact Information

- GSFIC Phone: 404 463 5600
- GSFIC Project Management
 - Danny Elijah: daniel.elijah@gsfic.ga.gov
 - Nathan Jones: nathan.jones@gsfic.ga.gov
- GSFIC Procurement
 - Rey Palma: rey.palma@gsfic.ga.gov
 - Jim Hyde: jim.hyde@gsfic.ga.gov
- Reporting
 - Andrew Ladd: aladd@gefa.ga.gov
- Measurement & Verification
 - P.J. Newcomb: pjnewcomb@gefa.ga.gov