



U.S. Department of Energy  
Energy Efficiency and Renewable Energy

*federal energy management program*

# Welcome to FUPWG!



Fall 2008



U.S. Department of Energy  
Energy Efficiency and Renewable Energy

# Ground Rules

*federal energy management program*

## **Be Present and Participate**

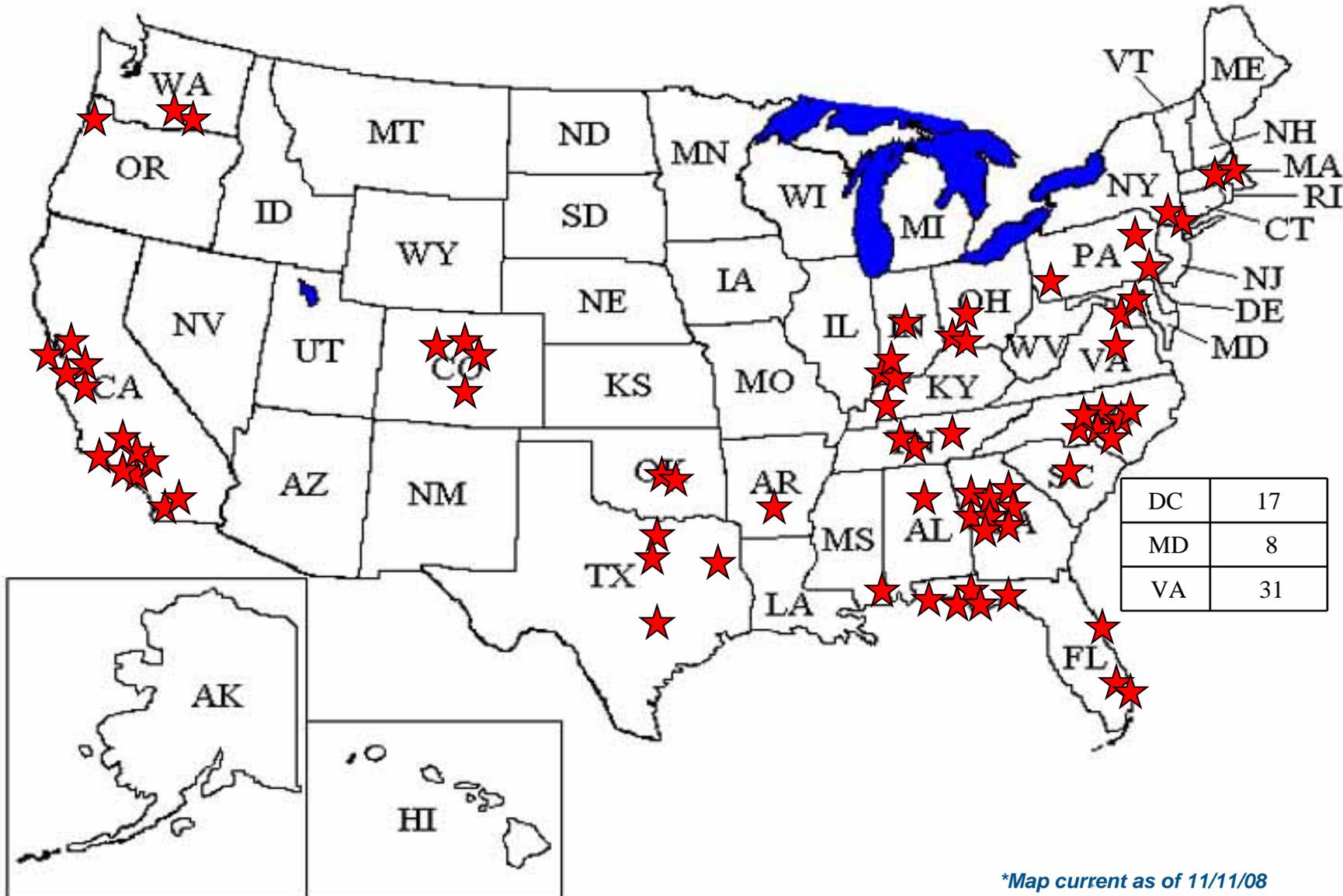
Please turn off cell phones, blackberries and laptops

- We will have lots of breaks for you
- **If you really need to take a call or use your blackberry please step outside**

Remember to say thanks to Lindsey and  
Kevin



# Fall 2008 Attendance



*\*Map current as of 11/1/08*



- Today's agenda is very Packed
  - Networking is important but,
  - Lets try to regroup on time
- Lunch – Williamsburg Ballroom
- Dinner
  - Anybody **not** going let Susan know
  - We need meet in the lobby at 6:30! We are walking to James Shield's Tavern
  - **Wear a good coat and comfortable shoes!**
- Presentations posted on FUPWG website



U.S. Department of Energy  
Energy Efficiency and Renewable Energy

# FEMP Activities Update



# New Cover!

DRAFT

Utility Energy  
Services Contracts:  
Enabling Documents



2008 Interim Update: Final Draft

Prepared for the  
U.S. Department of Energy  
Office of Energy Efficiency and Renewable Energy  
Federal Energy Management Program

November 2008  
DOE/GO-102008-2588



U.S. Department of Energy  
**Energy Efficiency  
and Renewable Energy**  
Bringing you a prosperous future where energy  
is clean, abundant, reliable, and affordable

- No longer the “**UGLY Pink Book**”
- Subgroup members to take copy for mark-up
- Copies now available for review
- **We still need a cover photo**



### Interim Version Additions:

- Legislation and Executive actions –
  - Energy and Independence and Security Act of 2007,
  - National Defense Authorization Act of 2007
  - Executive Order 13423
  - Emergency Economic Stabilization Act of 2008
- Legal opinions –
  - Retention of Rebates
- Agency guidance –
  - White House Letter – Promoting ESPC and UESC in Federal Government
  - DoD's UESC Guidance Memorandum
  - Performance Assurance for Multi-Year Contracts
  - Procuring Energy Services with the GSA Areawide Contract
  - Lessons Learned for UESCs



# Enabling Documents

## Additions (continued):

- Sample Documents
  - Basic Ordering Agreement
  - Site Specific Contract
  - Statement of Work
  - Assignment of Claims
  - Utility-ESCO Agreement
- Helpful Hyperlinks
  - Choosing a Financing Vehicle for Energy Efficiency Projects
  - Measurement and Verification
- Interactive Electronic Version
- *Introducing FEMP's Virtual Center of UESC Expertise!*
  - DOE's Team
  - Key Agency Contacts (DoD and Civilian)
  - Key Utility Contacts



# Emergency Economic Stabilization Act of 2008

## Section 103(a) Extension of Energy Credit

- Extended Investment tax credits through December 31, 2016
- Applicable to:
  - Energy Efficiency –
  - Combined Heat & Power Systems
  - Solar Energy Systems
- **Allows Public Utilities to use Investment Tax Credits**
- Effective February 12, 2008



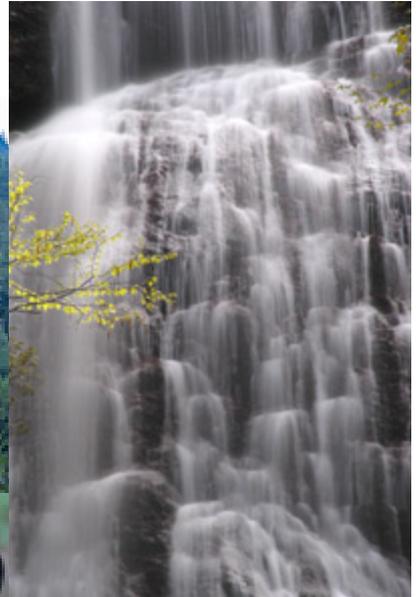
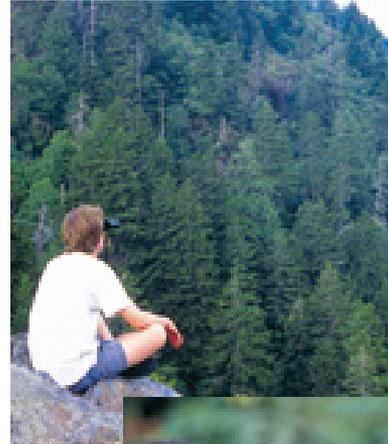
# EISA Sect. 432: Guidance Update

- Guidelines on designating energy managers and criteria for covered facilities and evaluations (audits)
  - The first set of guidelines and criteria has been cleared by the Office of Management and Budget and will soon be released.
  - agencies identifying their “covered facilities” and assigned energy managers and reporting them to DOE as part of their January data submission
- Web-based tracking system
  - Working group meeting convened 7 Oct 2008; framed initial requirements/structure
  - Considering FedCenter.gov as platform
- Guidelines for project implementation and follow-up
  - Working groups convened 16 Oct 2008 and 13 Nov 2008
  - Guidelines under development
- Selection of benchmarking system (Energy Star) or develop another
  - Convene working group week of Dec 1



# DOE/DOI Energy SmartPARKS

- **MOU signed between DOE/DOI/NPS, press release just issued this week announcing this initiative**
- **Great Smoky Mountains National Park meeting with TVA and FEMP this week; technical assistance underway**
- **Upcoming meeting with San Francisco area parks and PG&E**
- **Assistance also being offered at Independence Hall in Philadelphia, Cape Lookout in NC and more!**





- Great session yesterday here in Williamsburg
- Next classroom workshop will be in the 2<sup>nd</sup> Quarter of the FY in San Francisco
- Next Alternative Financing Options Webinars (with UESC segment)
  - Wednesday, Dec. 17<sup>th</sup> 11am to 2pm EST
  - Wednesday, Feb. 4<sup>th</sup> 11am to 2pm EST
- Watch the FEMP Website for registration information and more details



# FUPWG Special Sessions

- **Energy Lawyers and Contracting Officers Working Group**
  - Stemming from organization developed at GovEnergy 2008
  - Led by Danny Gore of FERC
  - Working together to find solutions for legal/contracting issues associated with federal/utility partnerships
  - Focus in Phoenix was determining interest, broad discussion of many issues
  - Thursday afternoon meeting will focus on utility rebates and incentives
  - Anyone interested is welcome to attend
- **Utility-Agency Connection Session**



# Hawaii Clean Energy Initiative Update

- HCEI Goal is 70% Clean Energy by 2030
  - 40% from Renewable Energy Resources
  - 30% Energy Efficiency (includes transportation)
- State of Hawaii and DOE MOU signed
- State of Hawaii and HECO agreement reached
  - Inter-Island Cable & 40% RE generation by 2030
  - Advanced Metering & Feed In Tariffs

## FY09 DOE Commitment

- Provide technical support to enable success
  - Multi-million / multi-year technical assistance



## Training FY08 & FY09

- EERE Assessment Training (Sec 432)
- EISA/EO requirements, guidance, strategies
- Sustainable/EE Design
- Project financing (ESPC, UESC, PPA)

## Direct Project Support

- Aggregated RE Purchases
- Army – new construction optimize LCC effective EERE targets C2F
- USCG – NZEI Admiral's Quarters & PV feasibility
- Multiple new project requests (DOD, USCG, NPS)
- **If you have a need for assistance now would be a good time to ask**



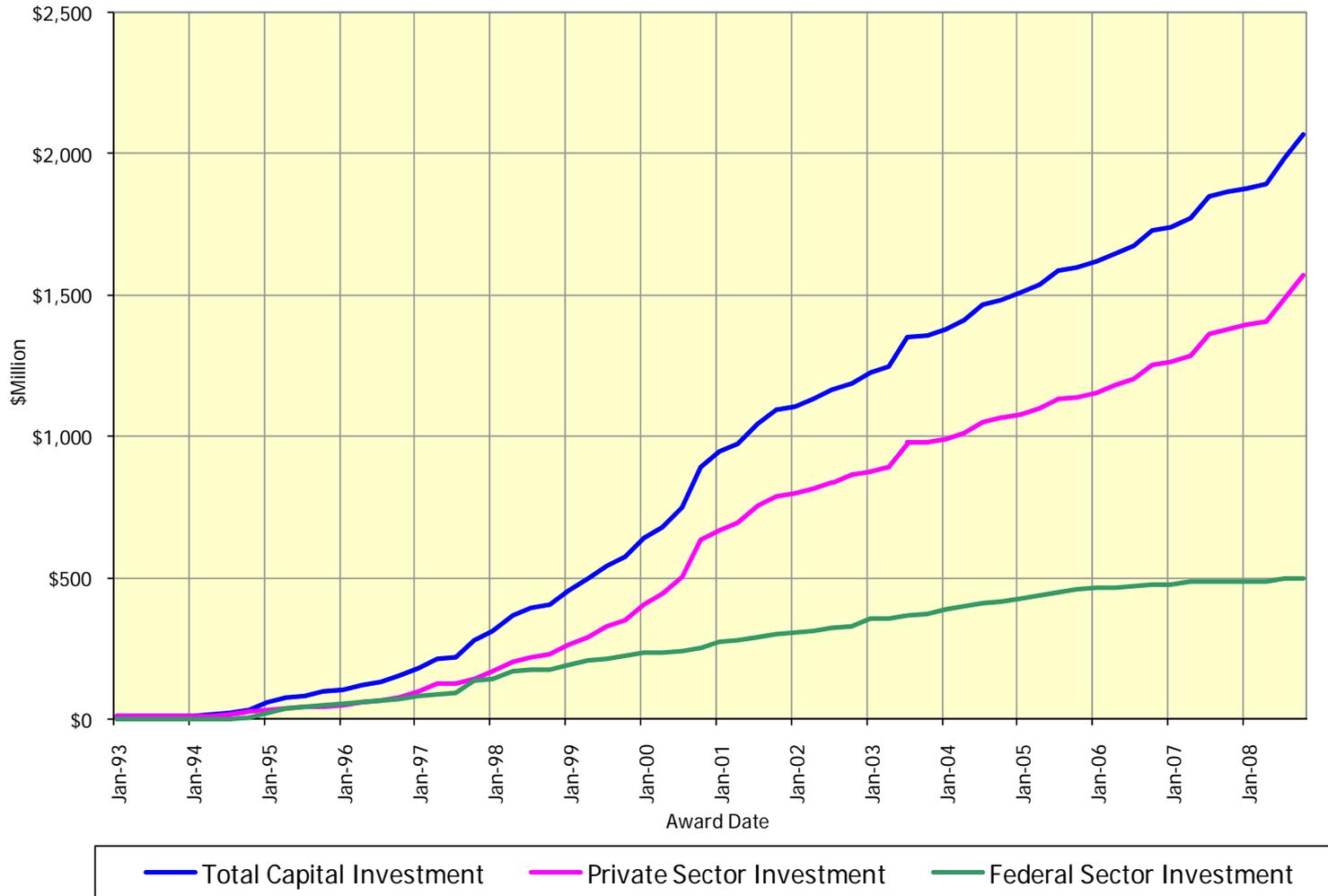
## – *Why Is It Important?*

- No legislative mandate to provide UEESC project details
- FEMP collects project-level data on a voluntary basis from both utilities and agency partners
  - To demonstrate growth and viability of UEESC's as a major financing Vehicle
  - Increase the Government's understanding of the investments required to meet energy efficiency goals
- Not all projects are reported, or full details not available. Numbers are conservative

**PLEASE HELP US IMPROVE OUR DATA!**



### UESC Project Total Capital Investment Rate of change over time



Notes:  
Investment is based on projects' capital cost.  
Data was last edited on 10/30/2008 and is subject to change.

**Mark Your  
Calendars!**



**GovEnergy**  
[www.govenergy.gov](http://www.govenergy.gov)

**August 9-12  
2009**

**Providence, Rhode Island  
Rhode Island Convention Center**



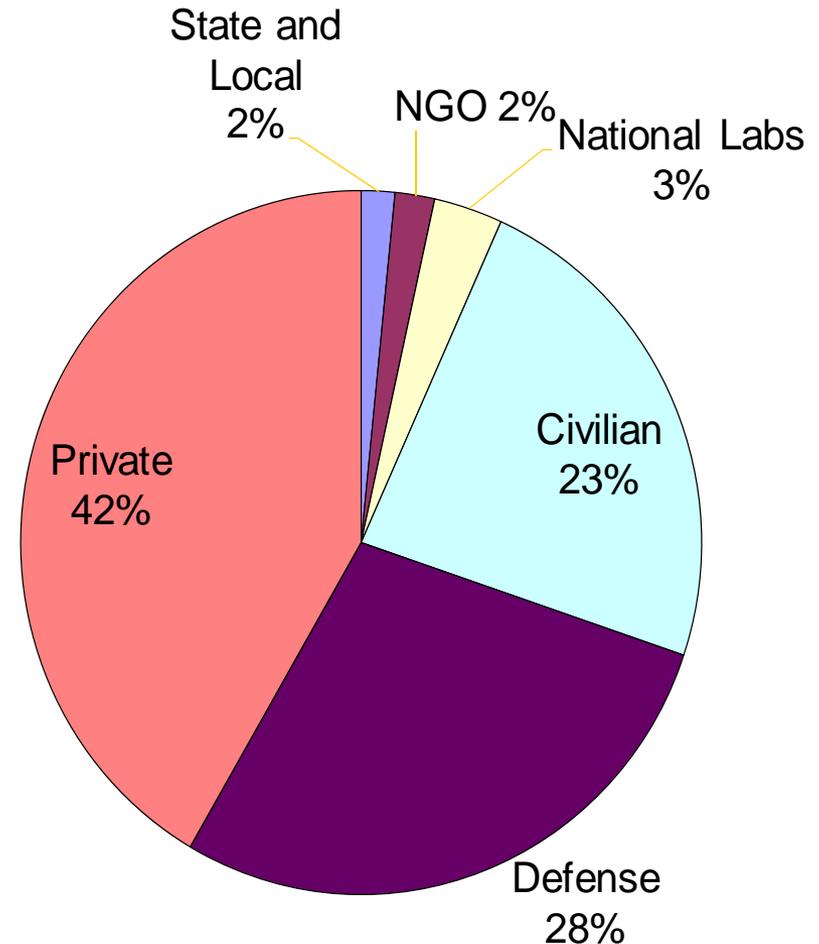
**For Details and Information:  
[www.govenergy.gov](http://www.govenergy.gov)**





- 2008 Attendance 2,500
- 2008 Exhibit hall sold out
  - 210 10X10 booths
- 2009 Exhibit hall 60%+- sold out
- Potential tracks
  - Project financing
  - Contracting
  - Sustainability
  - Energy Security
  - Renewable Energy
  - Technologies
- Planning Committee still accepting topic recommendations

## Attendance





U.S. Department of Energy  
Energy Efficiency and Renewable Energy

# Spring FUPWG 2009!

May 5-6, 2009

Biloxi, Mississippi  
Beau Rivage Hotel

*\*Now Accepting Topic Recommendations\**

*Hosted by:*



**MISSISSIPPI**   
**POWER**

A **SOUTHERN COMPANY**



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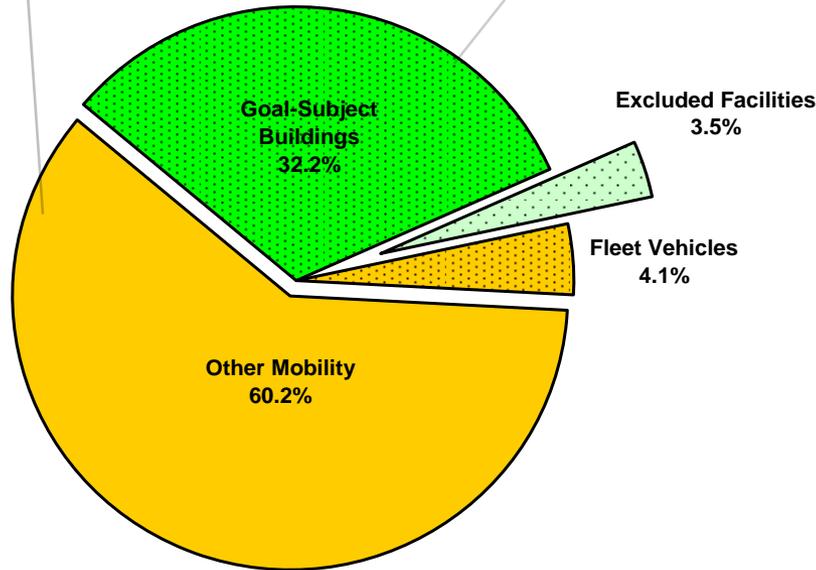
# Random Facts From Draft 2007 Report to Congress



# US Federal Footprint

## *Mobility Energy Cost by Type:*

- Jet Fuel = **65%**
- Navy Special = 14%
- Diesel = 14%
- Auto Gas = 7%
- Other = 1%



## *Building Energy Cost by Type:\**

- Electricity = **49%**
- Natural Gas = **33%**
- Fuel Oil = 7%
- Coal = 5%
- Other = 5%

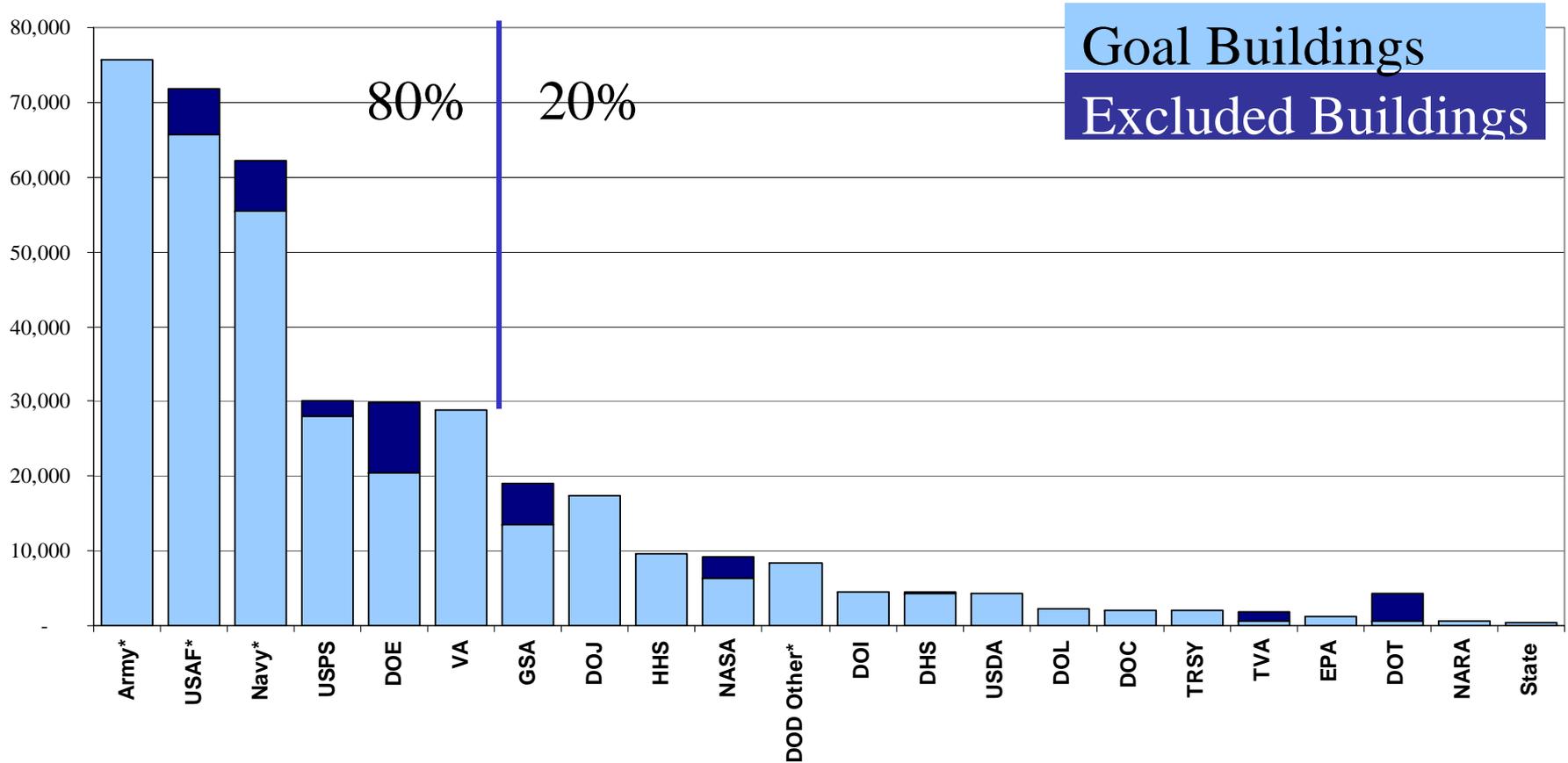
*\*The Federal Government operates over 500,000 facilities (3 billion sq ft)*

The Federal Government consumes **1.6%** of the Nation's total energy use, or **\$17.4 billion** in annual energy costs



# Federal Facility Energy Use by Agency in FY07

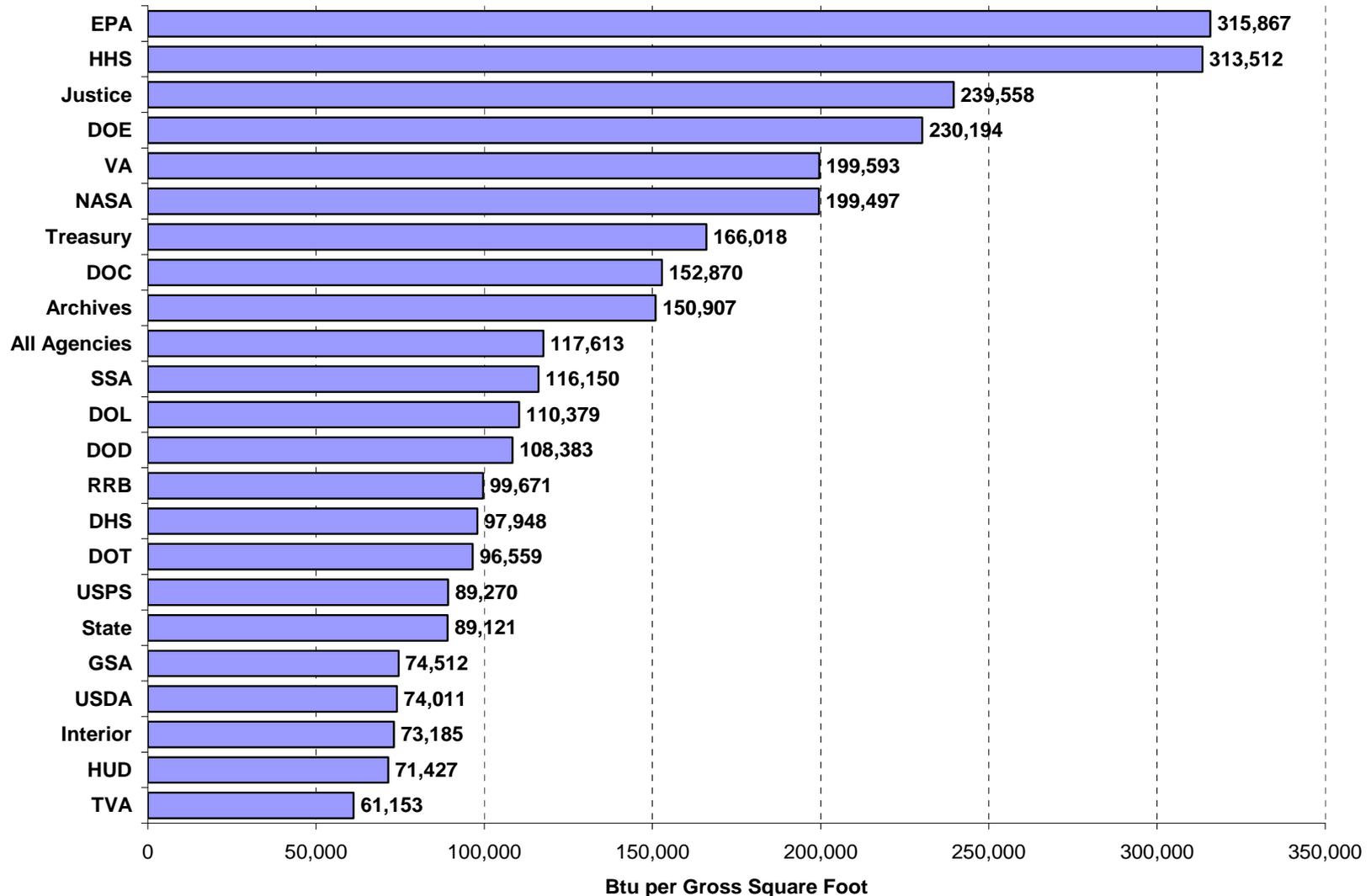
billion Btu/yr (FY2007)



Data from FY 2007 Energy Management Report with \*DOD components proportioned based on 2006 data



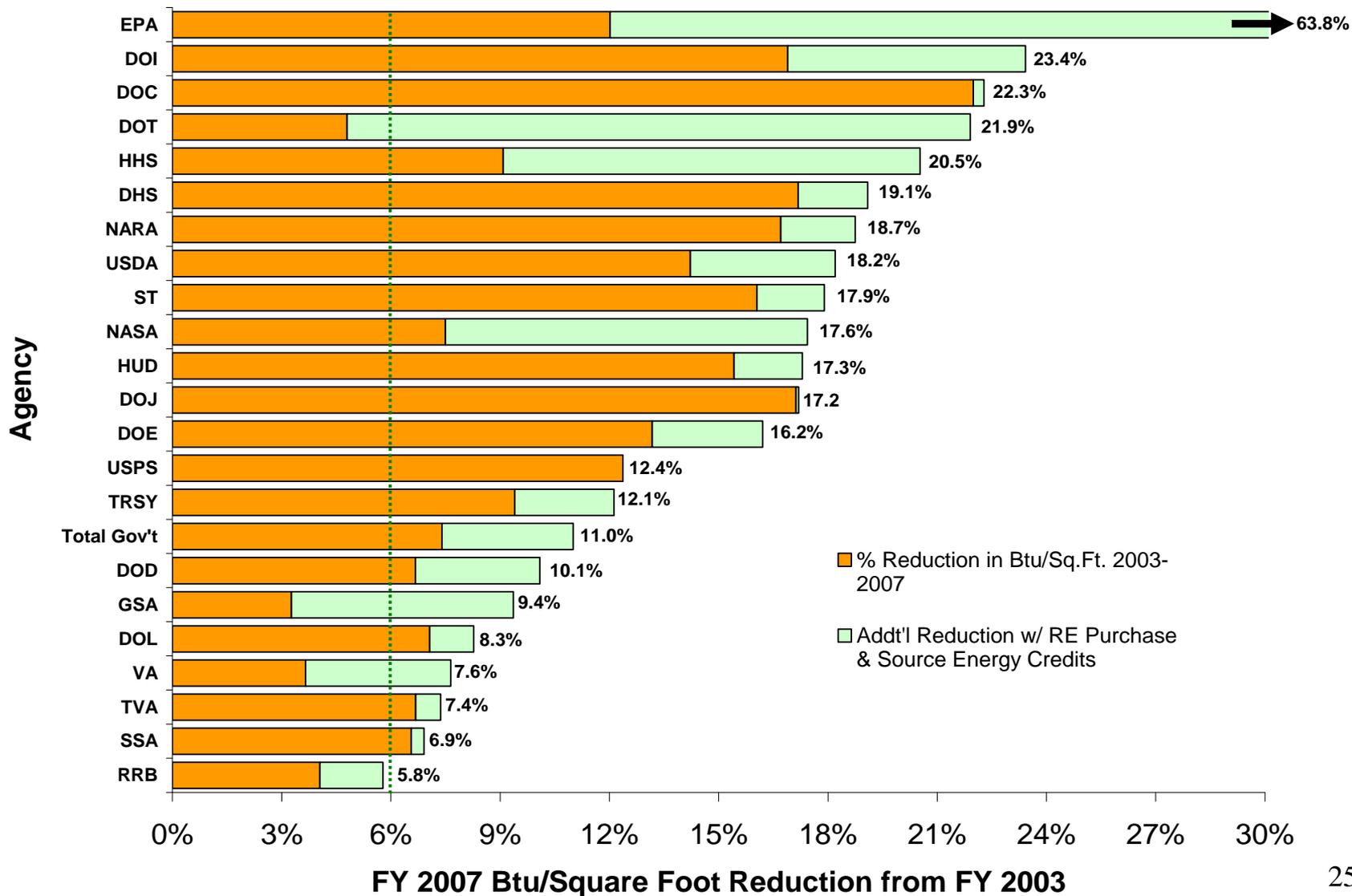
# Energy Intensity of Goal-Subject Buildings by Agency, FY07



Energy intensity shown does not account for credit received for renewable energy purchases.

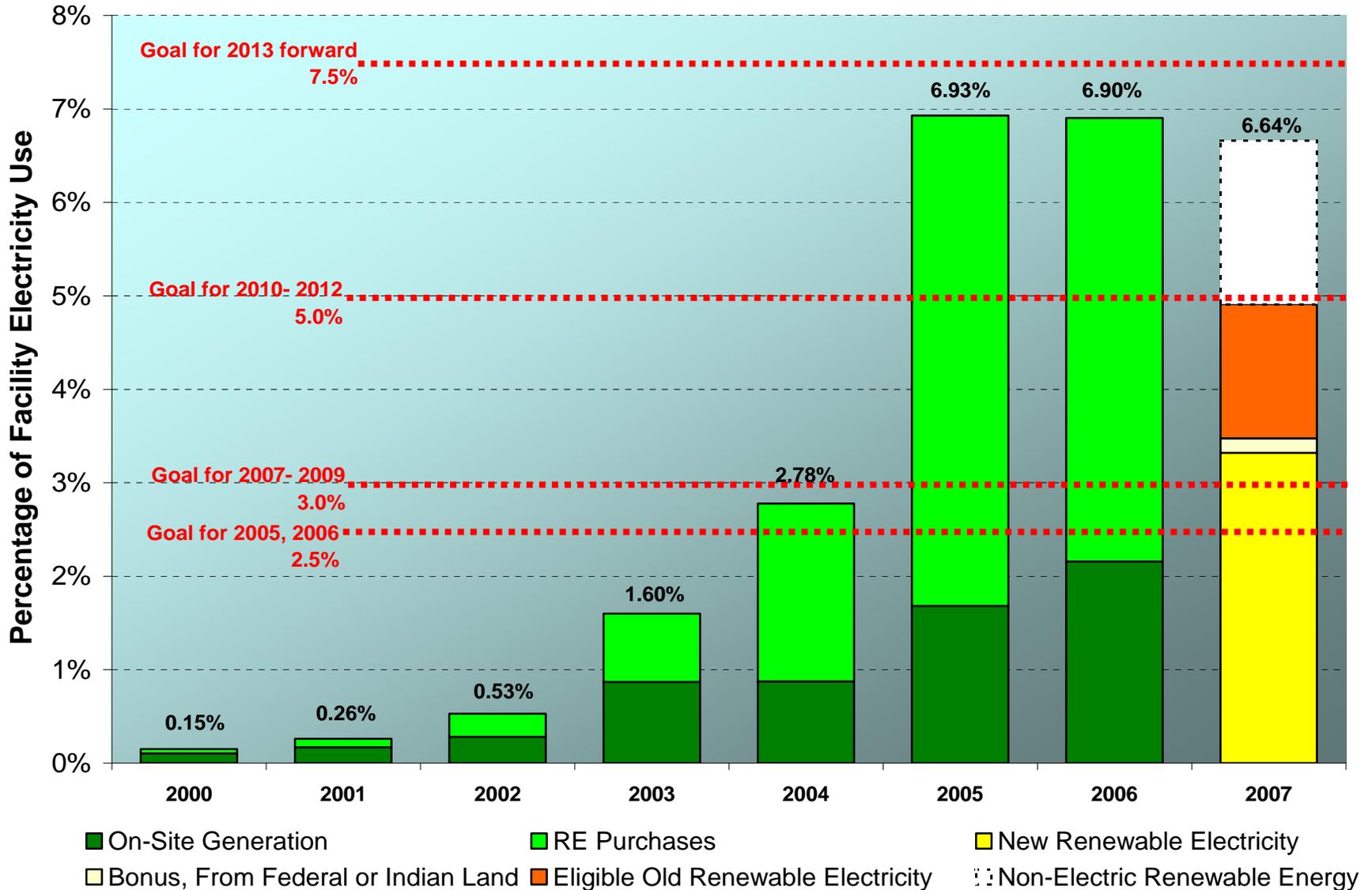


# Agency Progress Toward Energy Intensity Reduction Goal in FY07



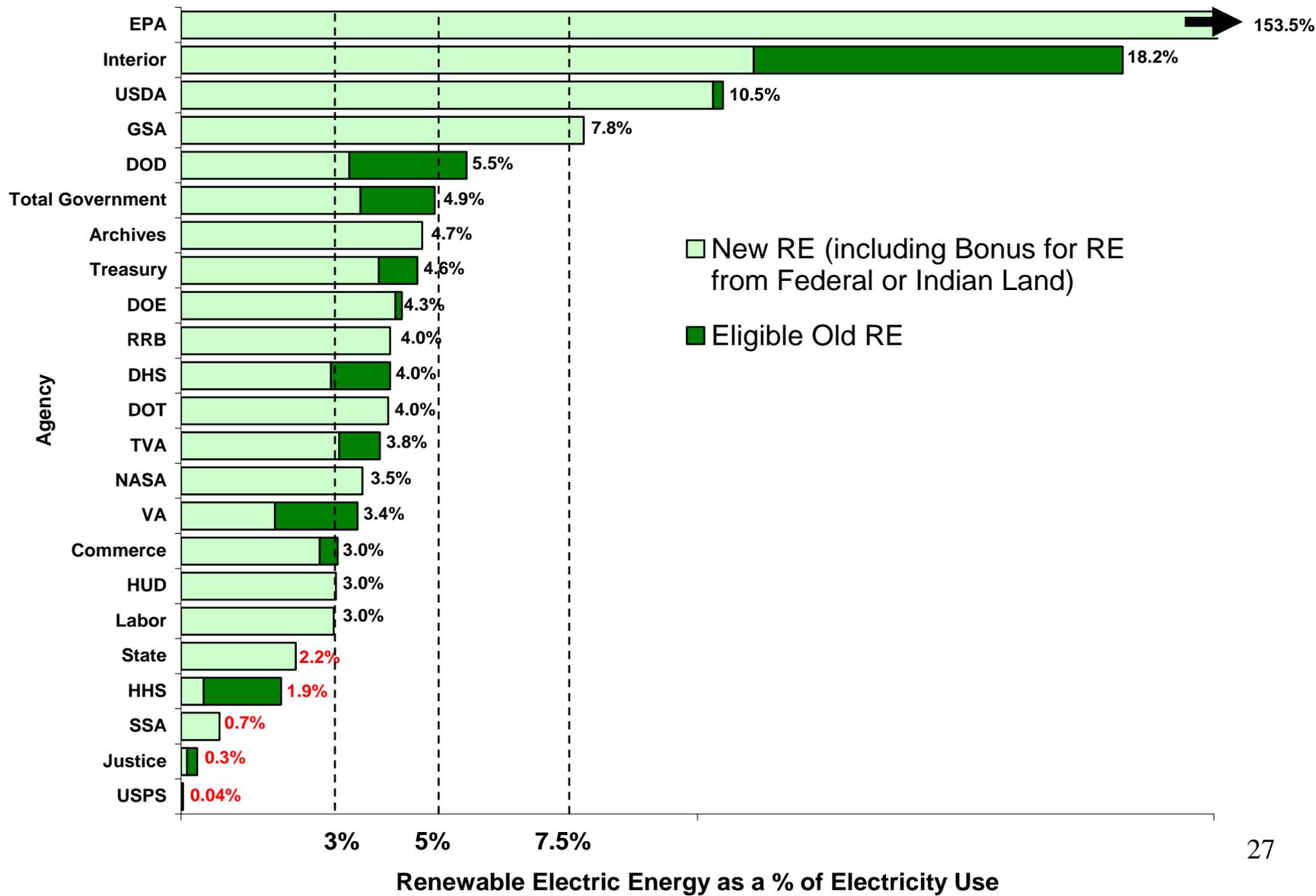


# History of Renewable Goal Performance 2000 - 2007



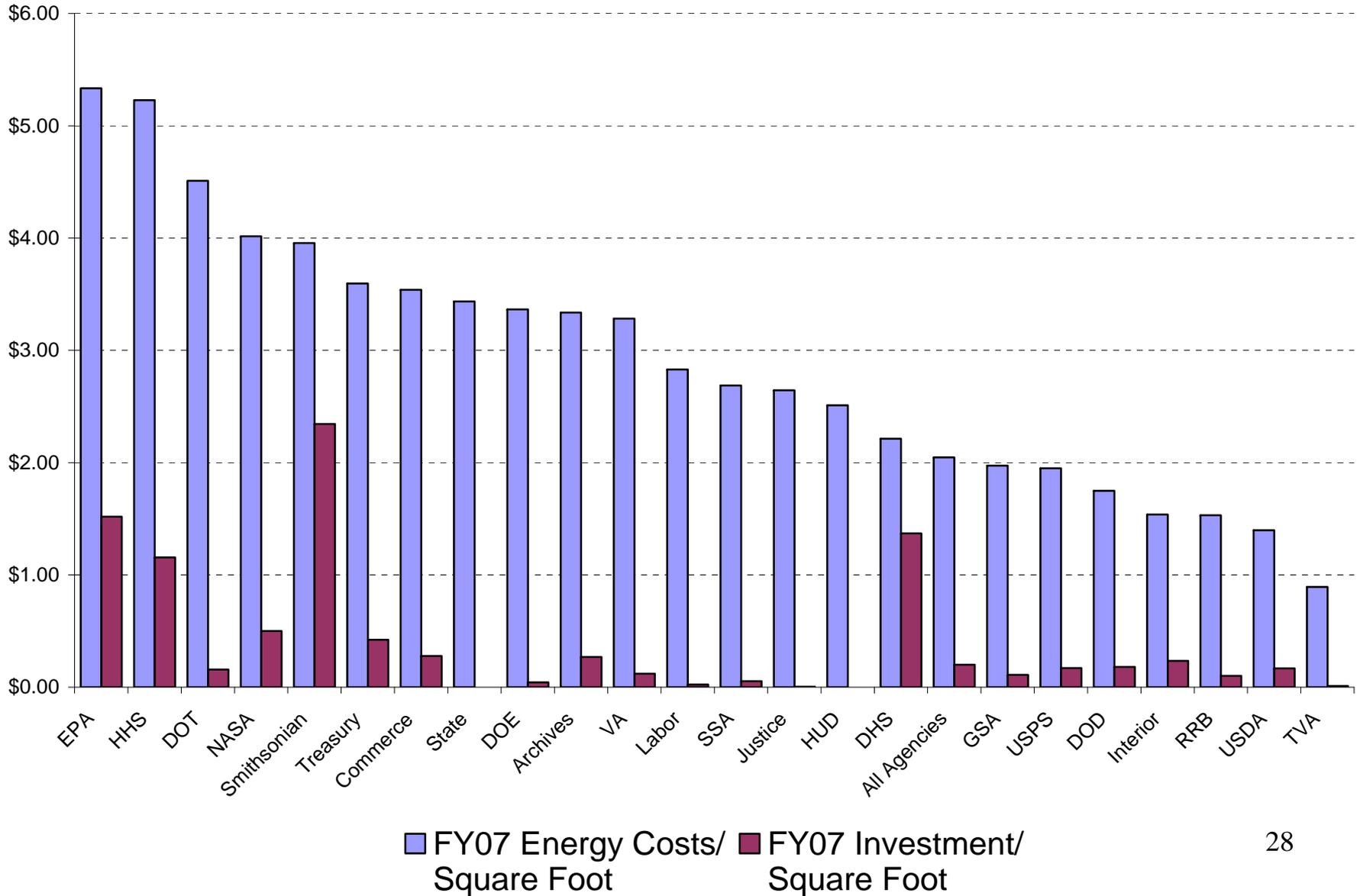


# Agency Progress Toward Renewable Energy Goal in FY07



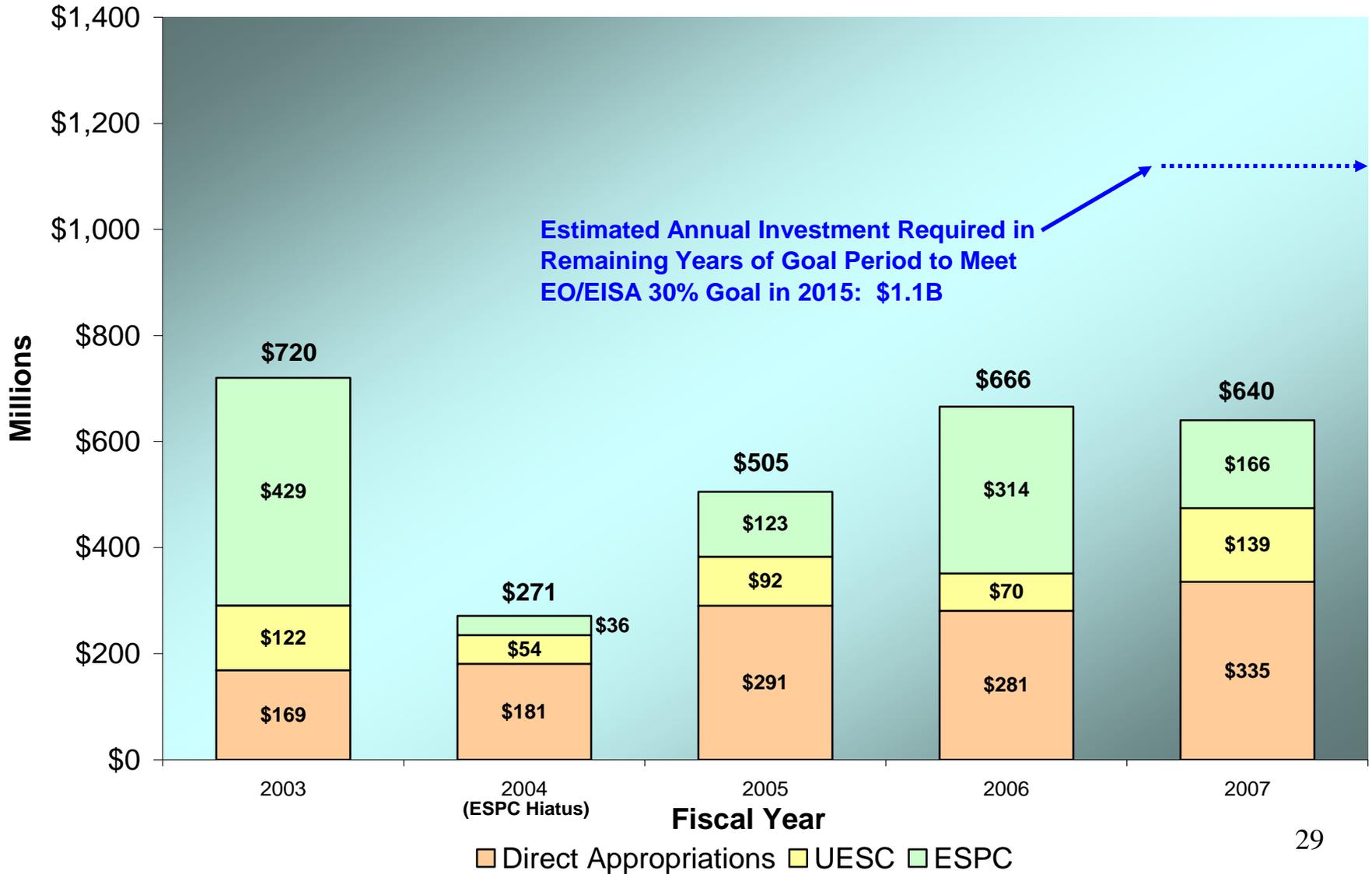


# Energy Costs & Efficiency Investment per Square Foot, 2007





# Investment in Facility Energy Efficiency 2003 - 2007





# Contact Information:

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<http://www1.eere.energy.gov/femp/>