

# Federal Progress Toward Energy/ Sustainability Goals

Presentation to Federal Interagency Energy Management Task Force

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U.S. Department of Energy

# Key Findings for FY 2013

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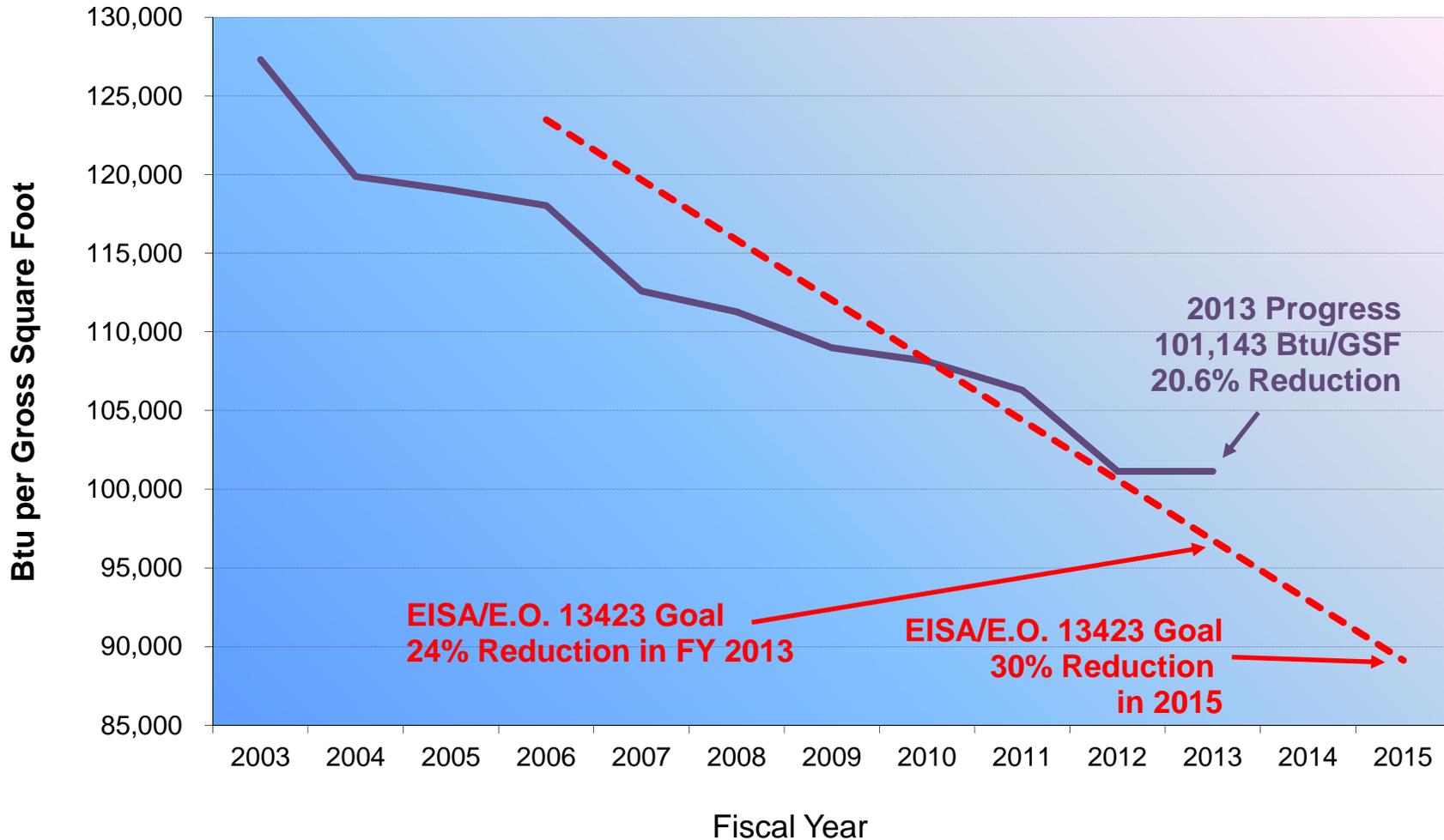
- Facility energy intensity fell short of the 24% goal with a 20.6% reduction from FY03; Btu/Sqft virtually unchanged from prior year
- Renewable energy goal of 7.5% was exceeded (9.2% of electricity use)
- Potable water reduction goal of 12% was exceeded (19.1% reduction)
- Goal of 11% of Federal buildings meeting Sustainability Guiding Principles not met; 3.65% of Federal buildings and 7.32% of Sq ft
- Scope 1&2 GHG emissions declined 17.2% from FY08
- Scope 3 indirect GHG emissions decreased 19.7% from FY08
- Petroleum use in the Federal fleet decreased 3.6% from FY05 (16% reduction goal)
- Alternative fuel use increased 232% from FY05 (5.3 % of total fleet fuel consumption)
- Efficiency investment in Federal facilities dropped 12.5%
  - Direct funding investment: \$793 million
  - ESPC/UESC investment: \$566 million in FY13
  - ESPC awards in FY14: \$253 million so far

# Overall Facility Goal Progress, FY 2013

Goal/Requirement for FY 2013	FY 2013 Federal Performance
<b>E.O. 13423/EISA:</b> Reduce energy intensity (Btu/GSF) by <b>24%</b> compared to 2003; 30% reduction required in FY 2015.	Government decreased energy intensity by <b>20.6%</b> in FY 2013 relative to FY 2003  12 of 24 Scorecard agencies achieved the goal.
<b>EPACT 2005/E.O. 13423:</b> Use renewable electric energy equivalent to at least <b>7.5%</b> of total electricity use; at least half of which must come from sources developed after January 1, 1999.	Government purchased or produced renewable energy in FY 2013 equivalent to <b>9.2%</b> of total electricity use.  20 of 24 Scorecard agencies achieved the goal.
<b>E.O. 13423/13514:</b> Reduce water consumption intensity (Gal/GSF) by <b>12%</b> relative to 2007 baseline; 16% by the end of FY 2015; 26% by FY 2020.	Government reduced water consumption intensity by <b>19.1%</b> in FY 2013 relative to FY 2007.  22 of 24 Scorecard agencies achieved the goal.
<b>E.O. 13514:</b> Reduce Government-wide scope 1 and 2 greenhouse gas emissions from targeted sources by <b>28% in FY 2020</b> compared to FY 2008	Government reduced scope 1 and 2 GHG emissions by <b>17.2% in FY 2012</b> relative to FY 2008  21 of 25 Scorecard agencies attained their interim targets.
<b>Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings:</b> At least 15% of new, existing, and leased buildings >5,000 square feet meet the Guiding Principles by 2015 (FY13 interim target = 11%)	<b>3.65%</b> of eligible Government buildings meet Guiding Principles; <b>7.32%</b> in terms of the buildings' square footage.  6 of 21 Scorecard agencies met the interim target of 11%

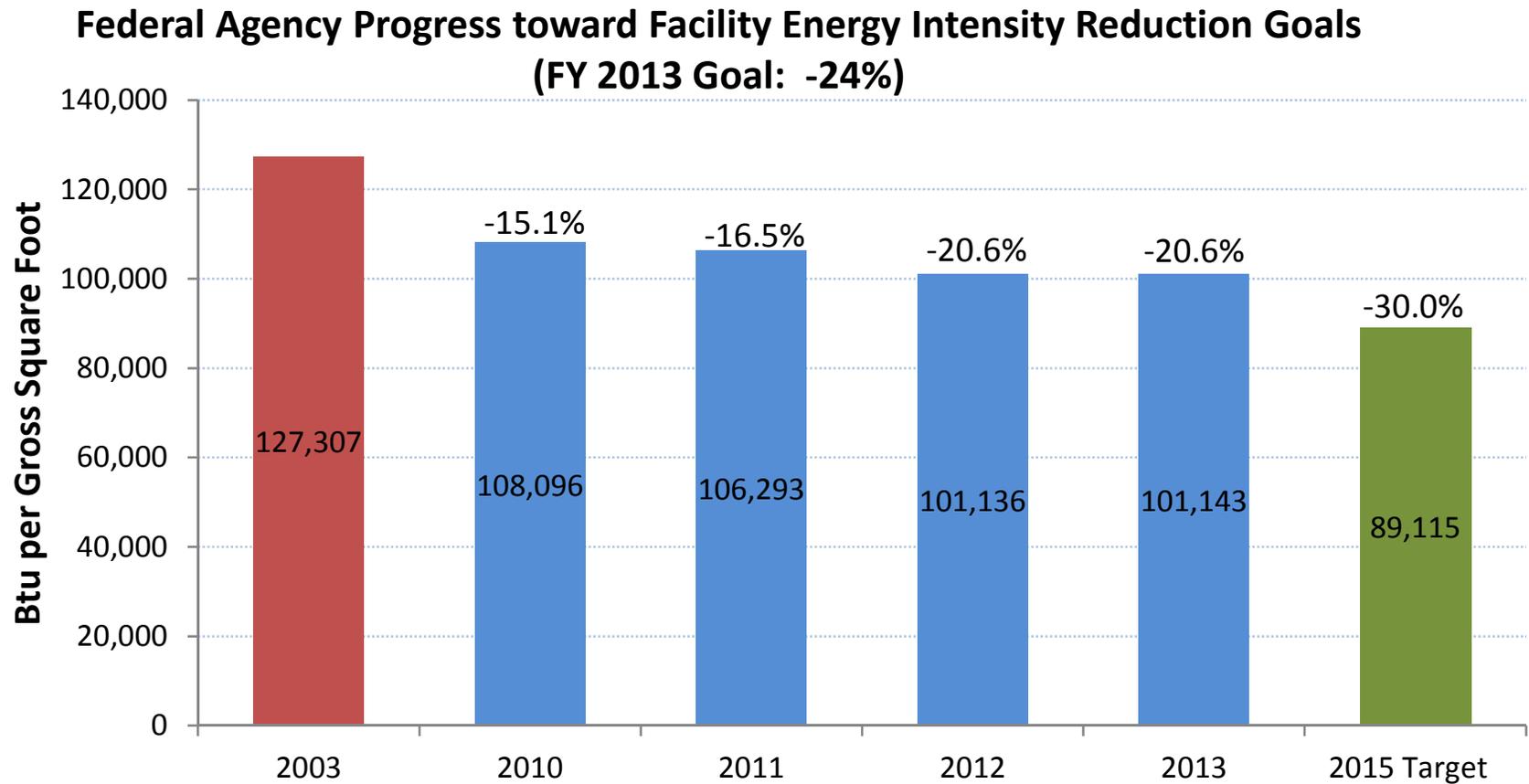
# Federal Facilities: Energy Intensity (Btu/GSF) Reduction Goal

Overall Government Progress Toward Facility Energy Efficiency Goals,  
FY 2003 - FY 2013



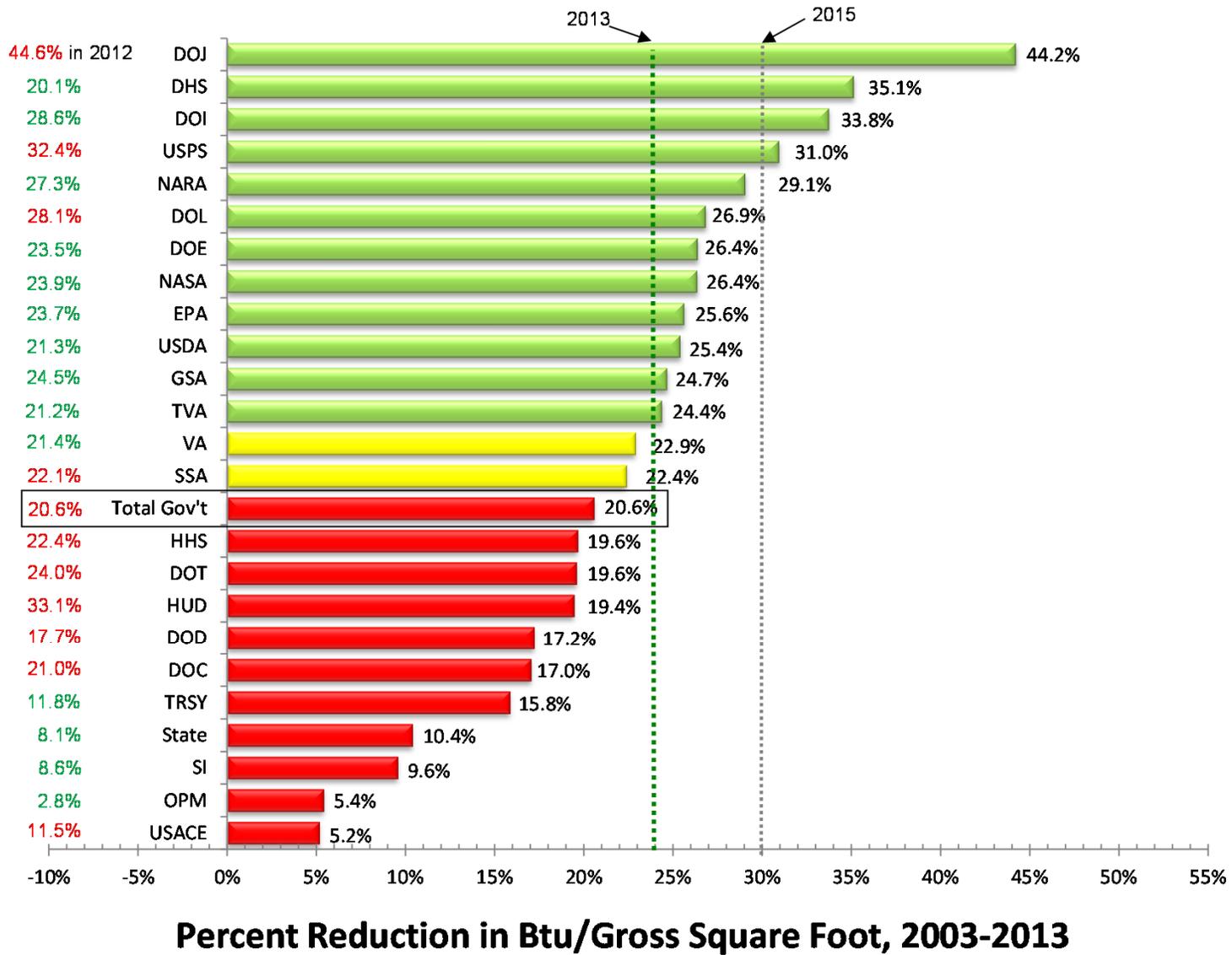
PRELIMINARY DATA

# Federal Facilities: Energy Intensity (Btu/GSF) Reduction Goal



PRELIMINARY DATA

# Federal Facilities: Agency Progress Toward Energy Reduction Goal

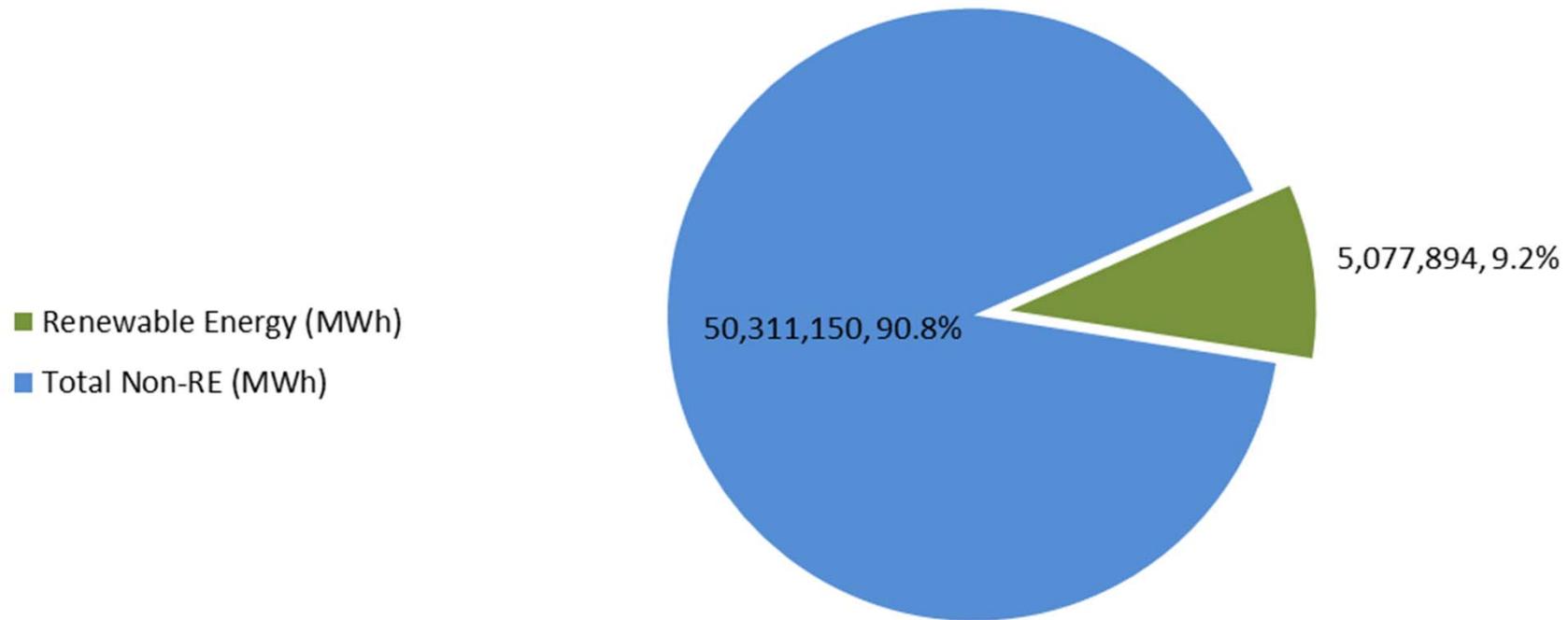


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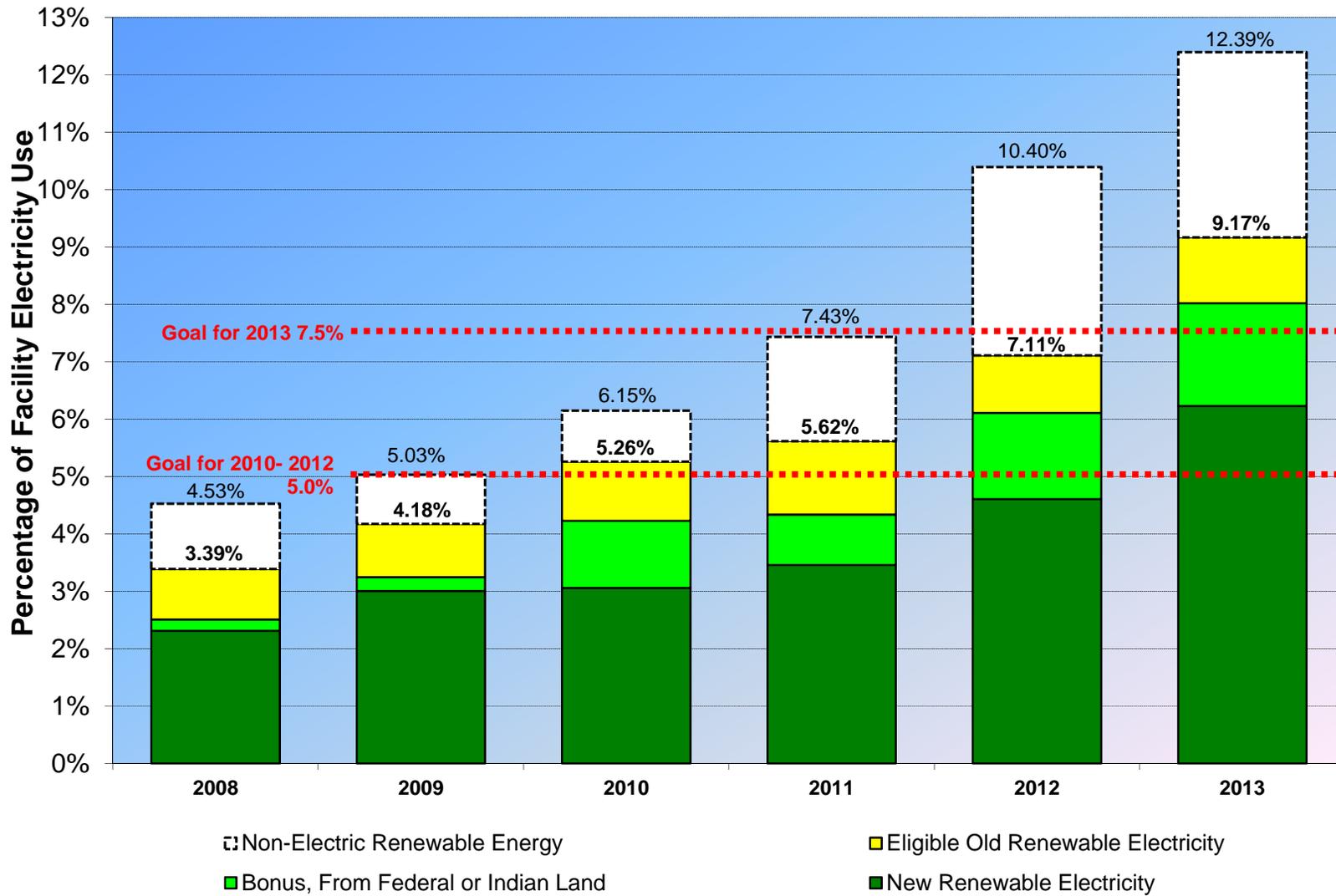
# Renewable Electric Energy Use, FY 2013

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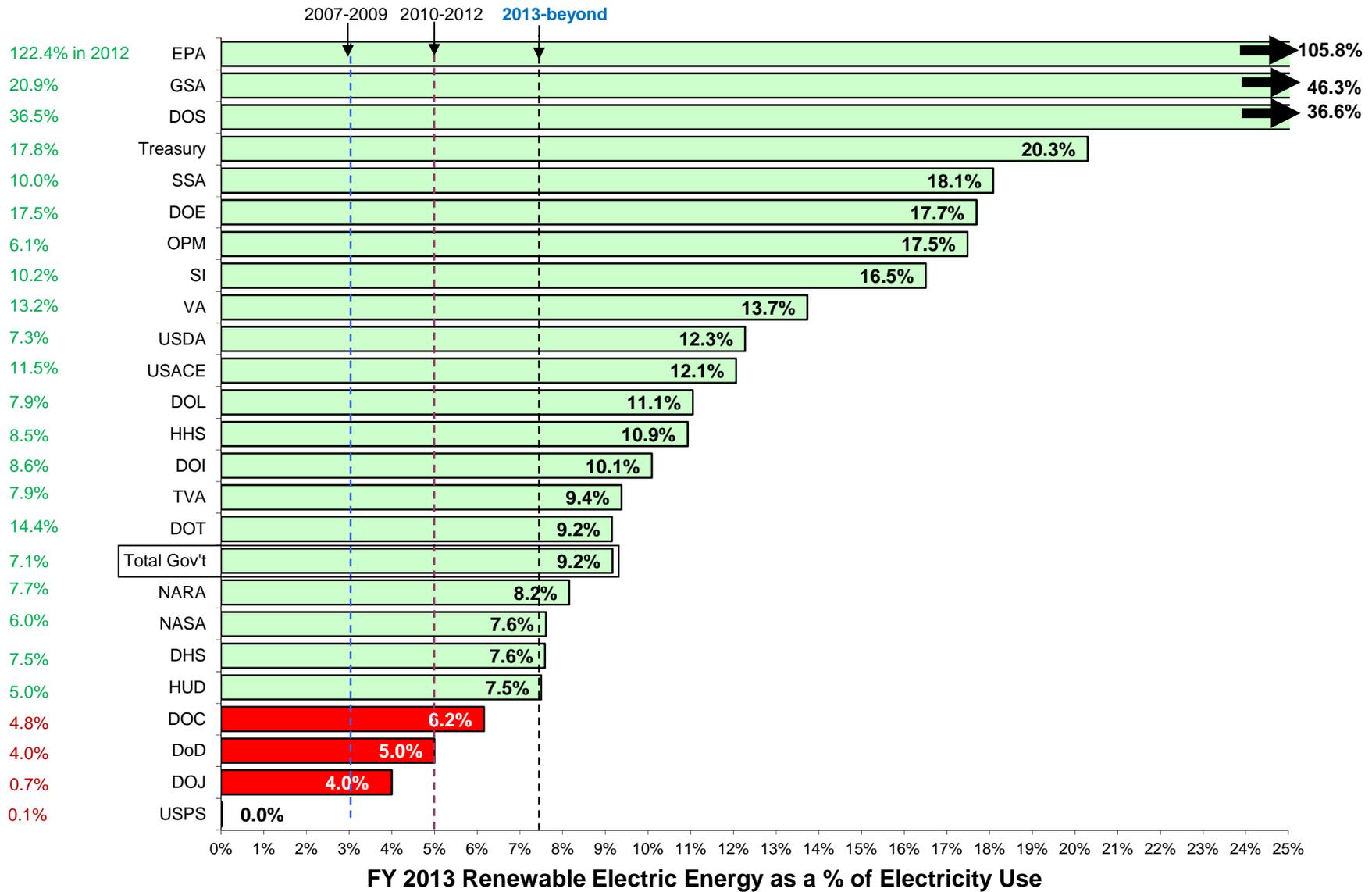
**Federal Agency Use of Renewable Energy as a Percentage of Electricity Use  
(FY 2013 Goal: 7.5%)**



# Renewable Energy Use, FY 2008 to FY 2013

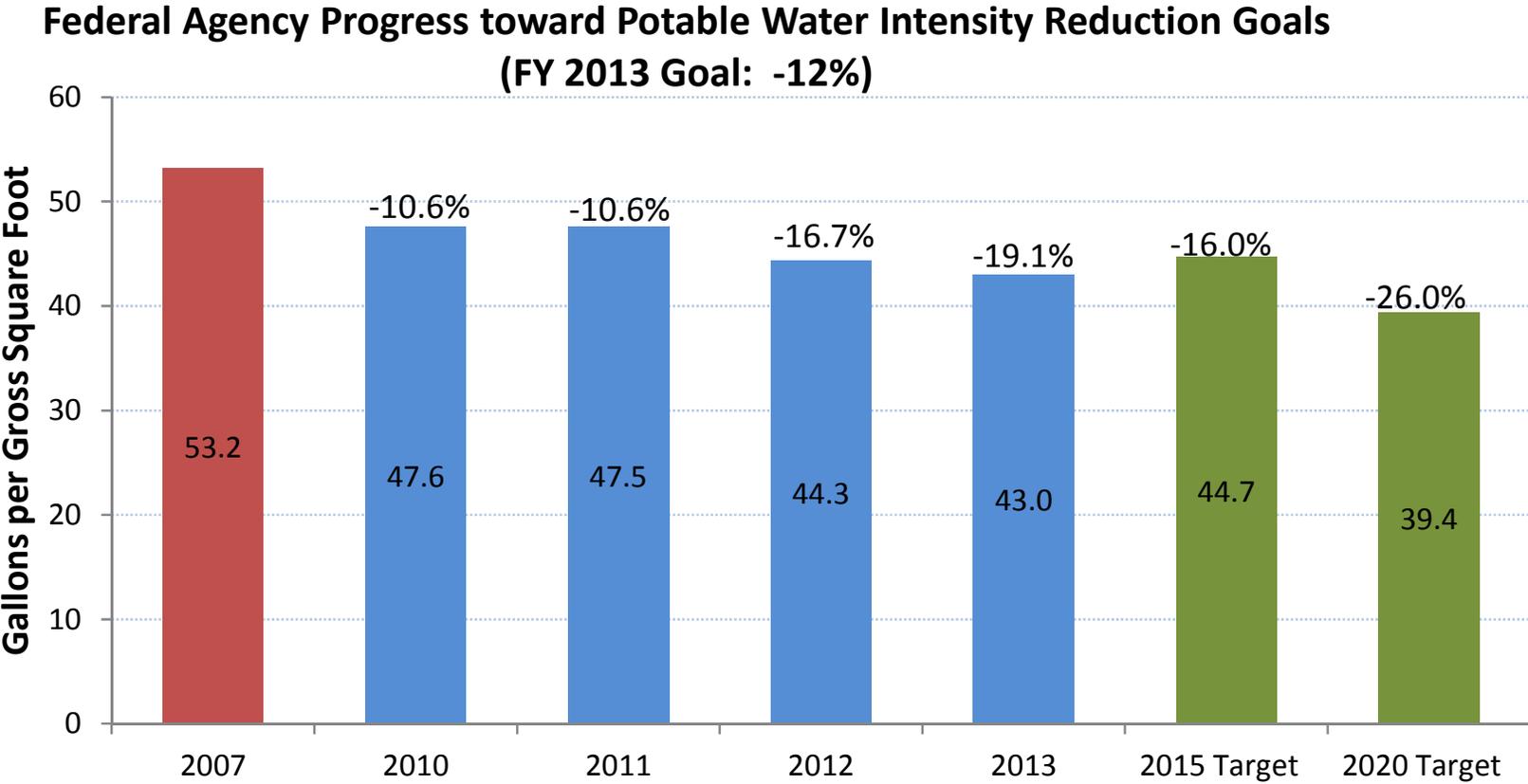


# Federal Facilities: Progress Toward Renewable Energy Goal



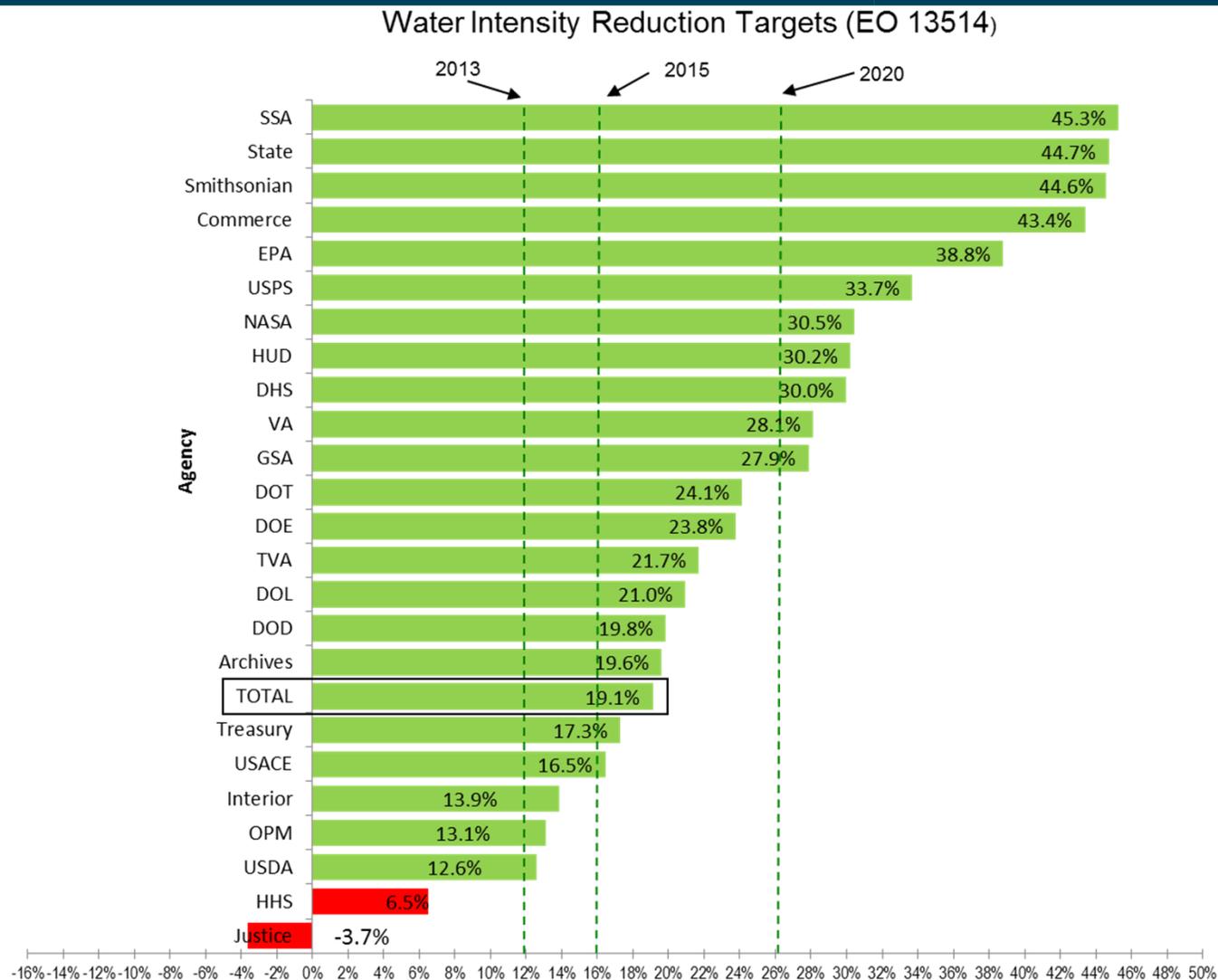
PRELIMINARY DATA

# Federal Facilities: Performance Toward Water Reduction Goal



PRELIMINARY DATA

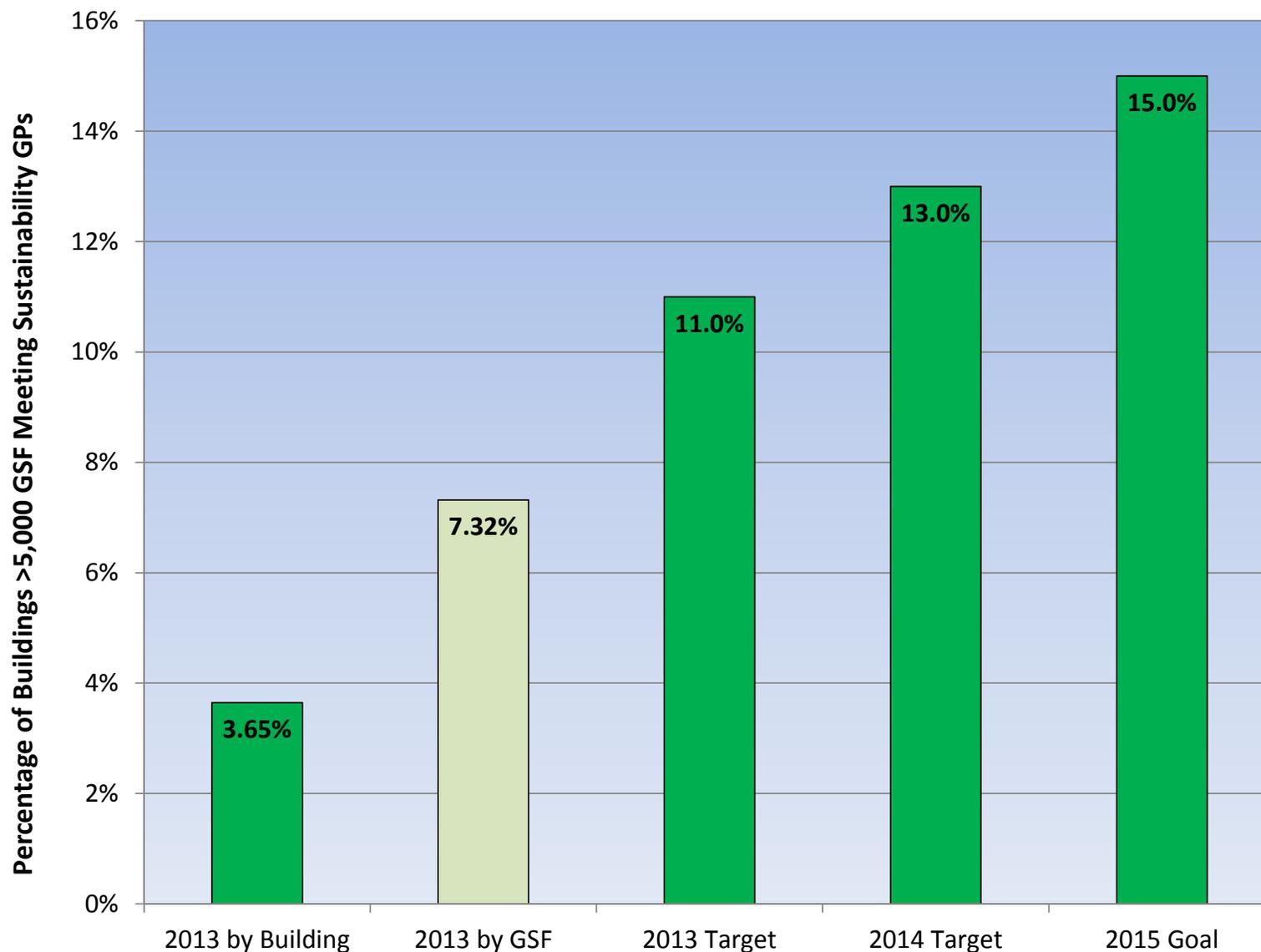
# Federal Facilities: Performance Toward Water Reduction Goal



**FY 2013 Reductions in Gallons per Square Foot from FY 2007**

PRELIMINARY DATA

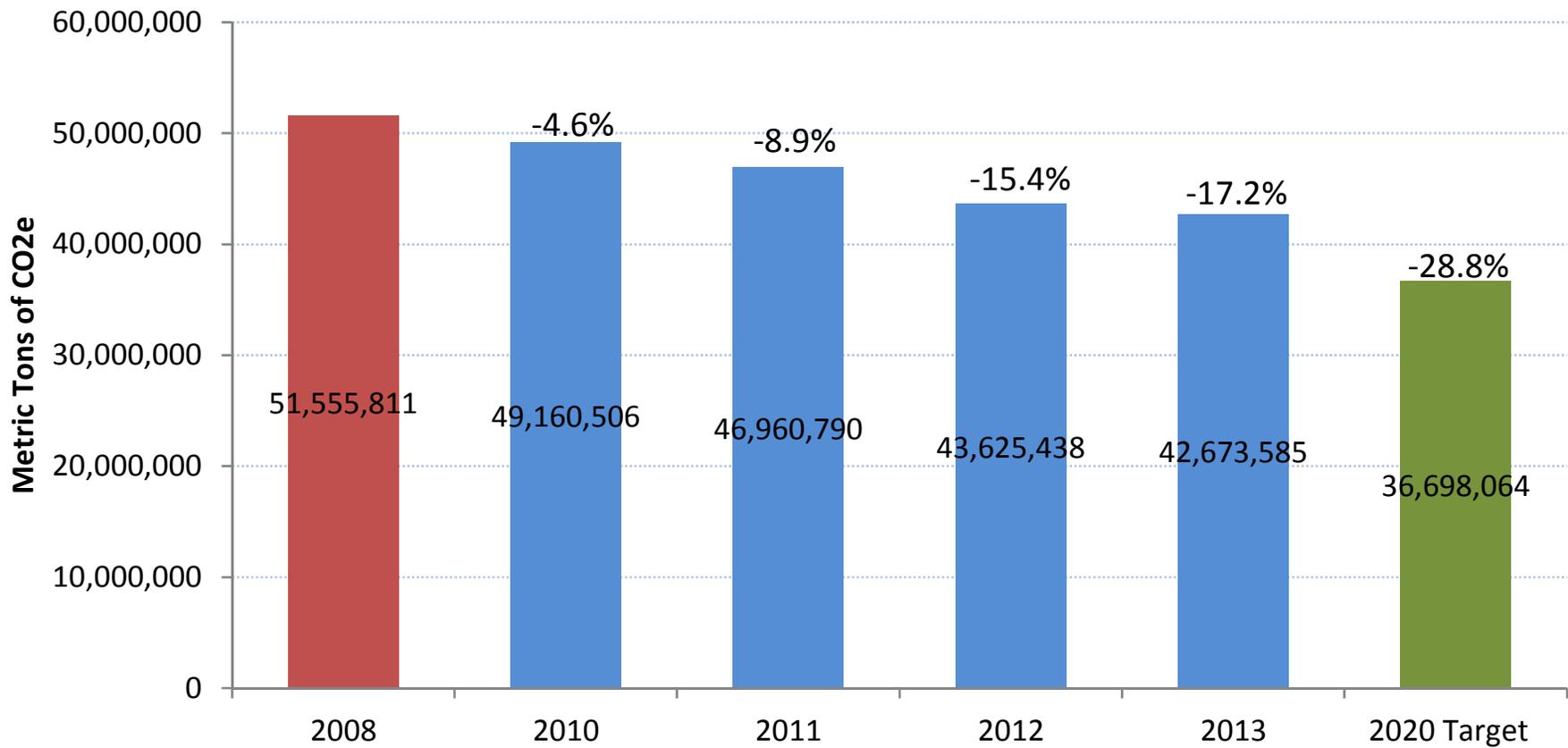
# Federal Facilities: Gov't-Wide Progress Toward Meeting Sustainability Guiding Principles



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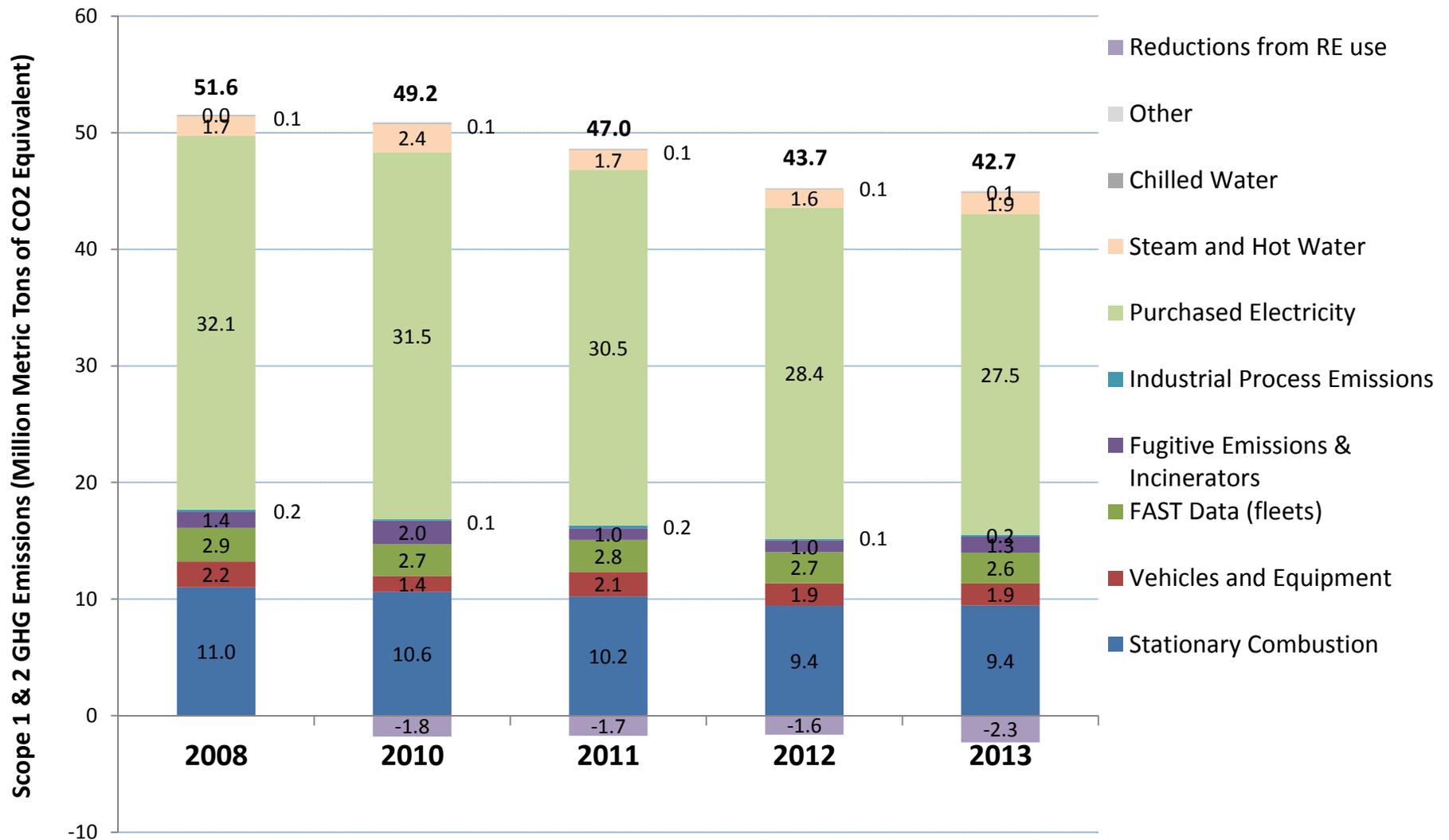
# Targeted Scope 1&2 GHG Emissions, FY 2008 - FY 2013

## Federal Agency Progress toward Scope 1 & 2 Greenhouse Gas Goals



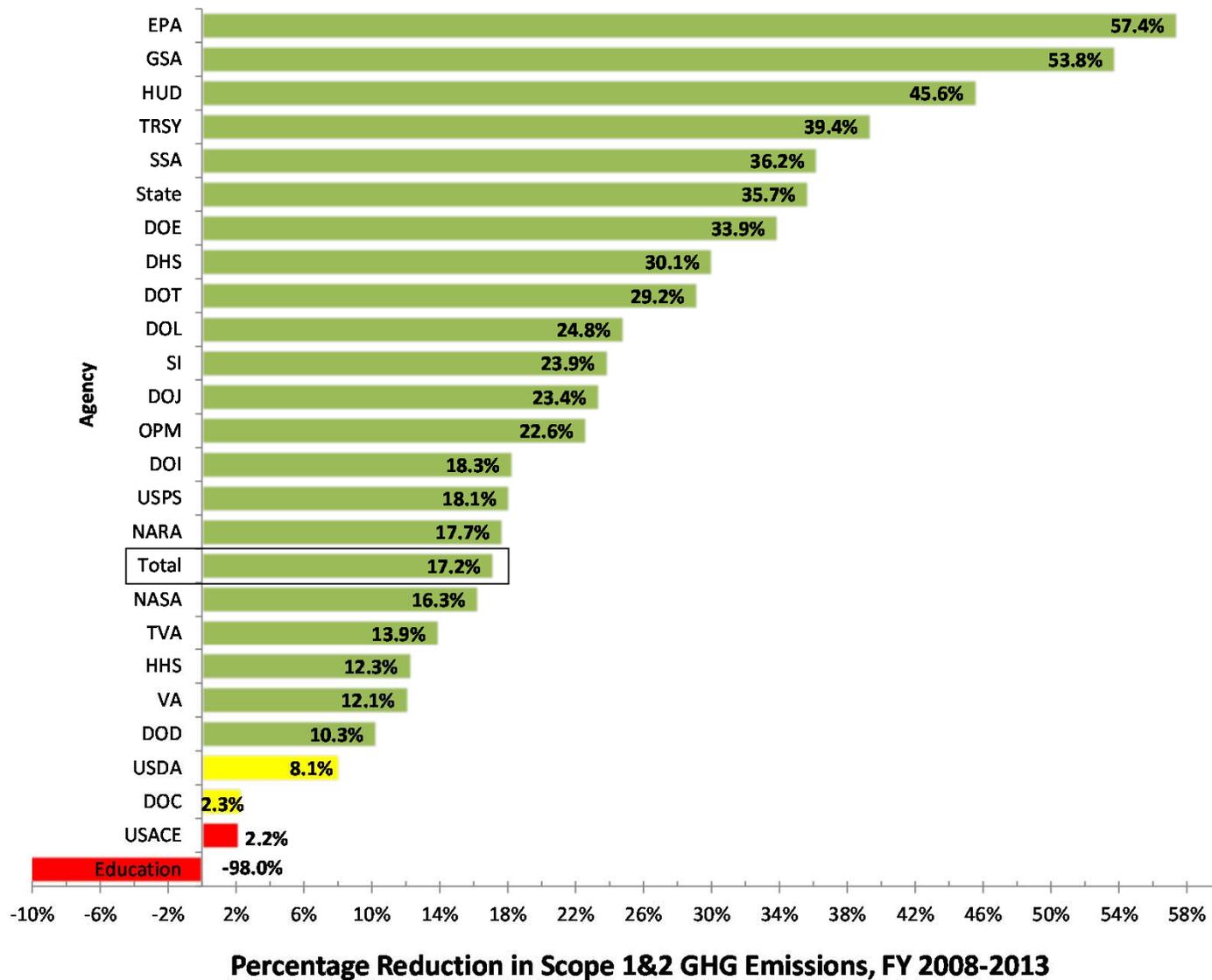
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# Targeted Scope 1&2 GHG Emissions, FY 2008 - FY 2013



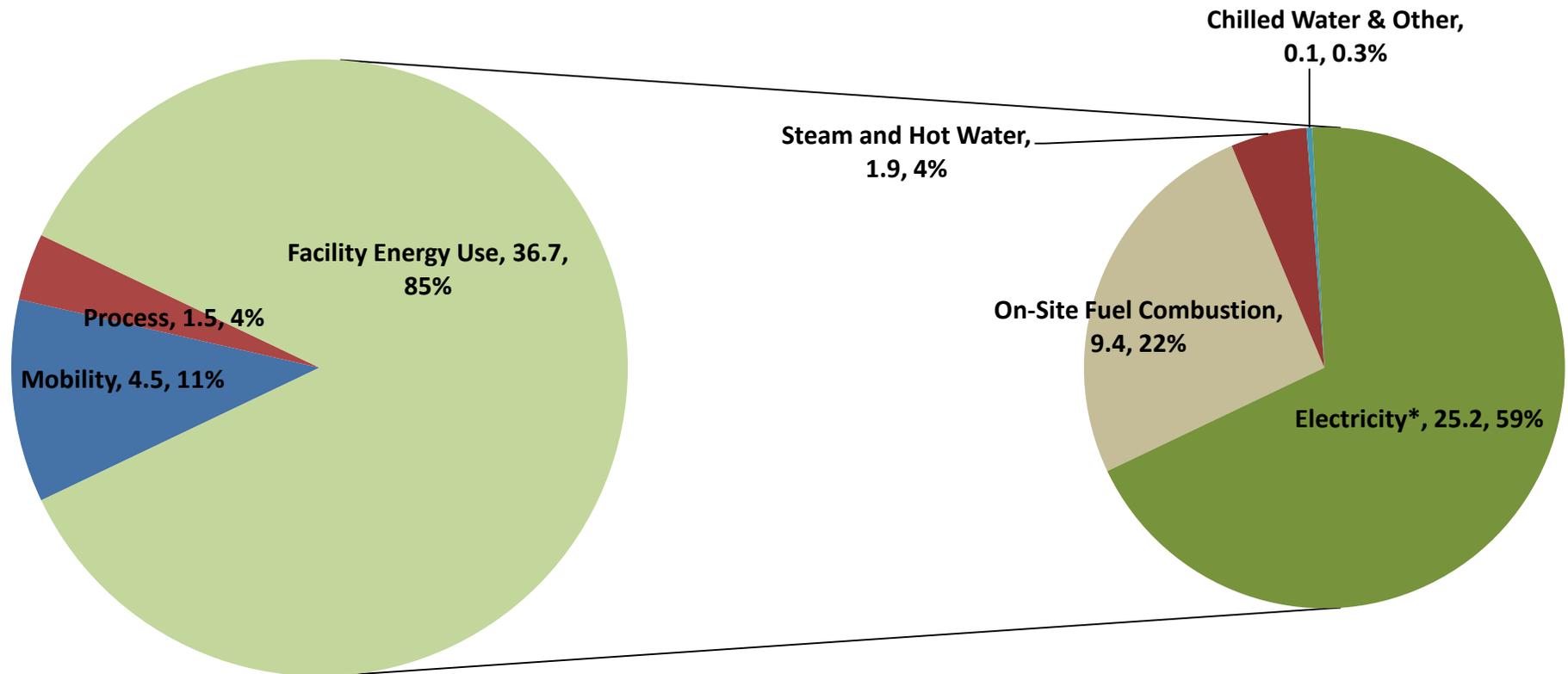
PRELIMINARY DATA

# Agency Performance Toward Scope 1&2 Greenhouse Gas Reduction Goals



# Sources of Scope 1&2 Greenhouse Gas Emissions

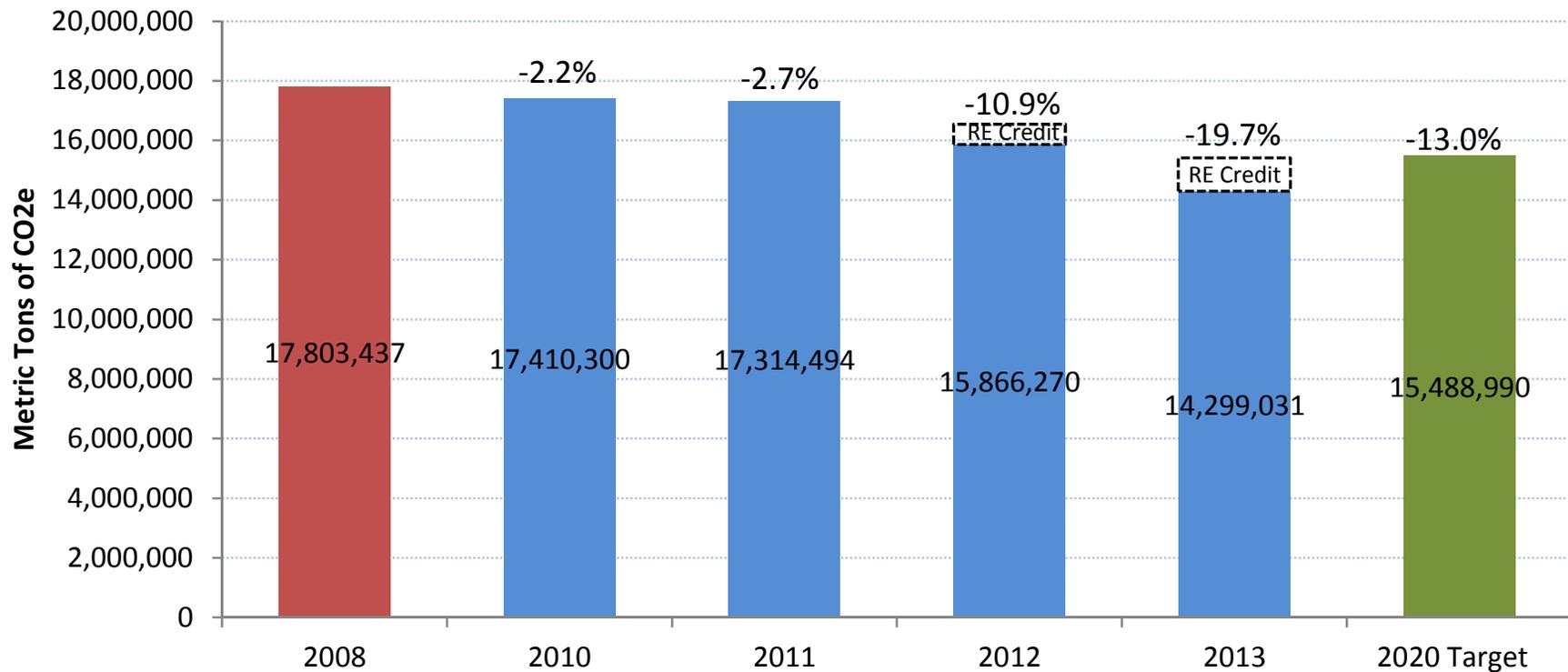
FY 2013 Federal Government Scopes 1 & 2 GHG Emissions Covered by Reduction Target (42.7 MMTCO<sub>2</sub>e)



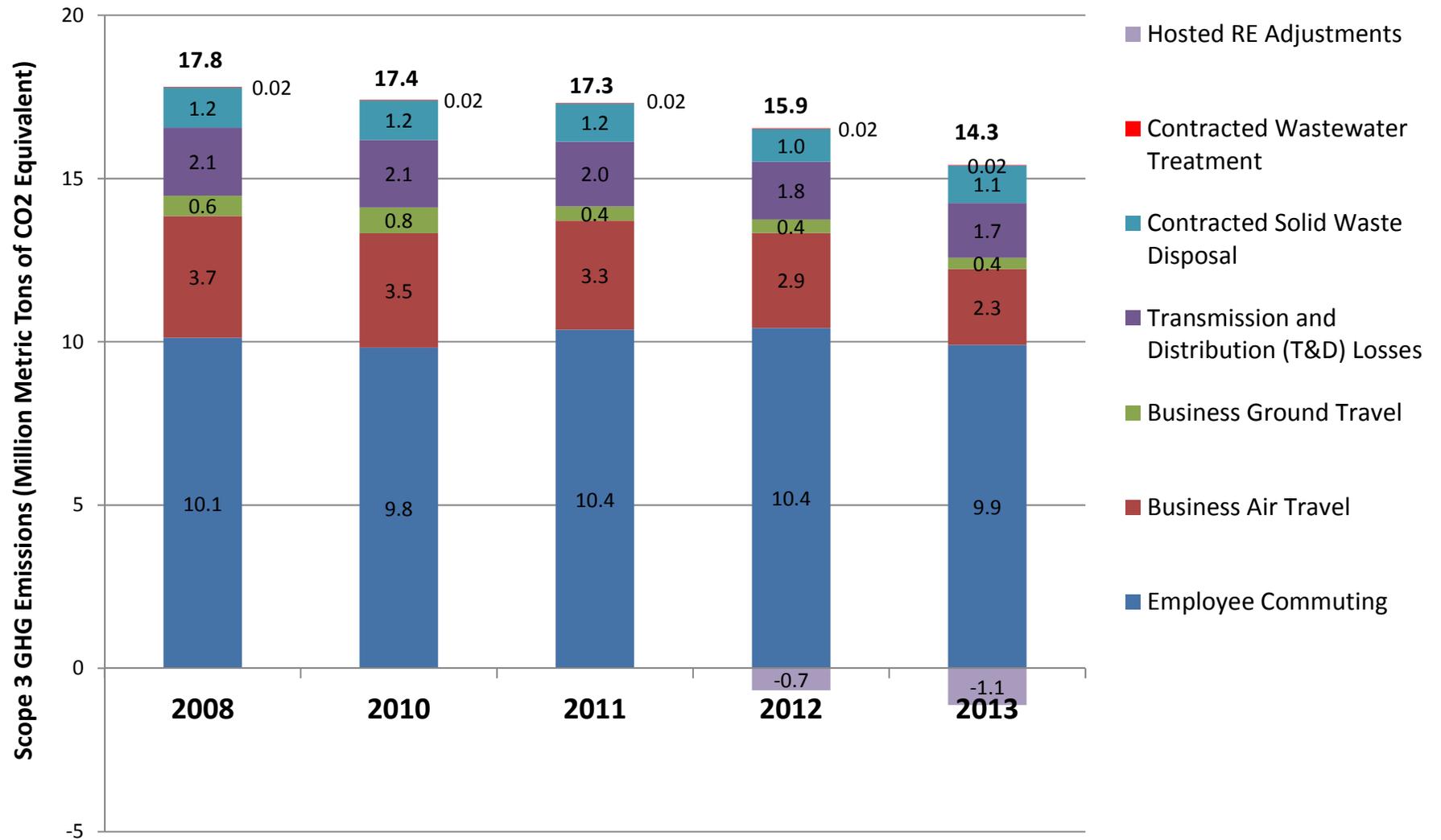
\*includes reductions from purchases of renewable energy attributes

# Targeted Scope 3 GHG Emissions FY 2008 - FY 2013

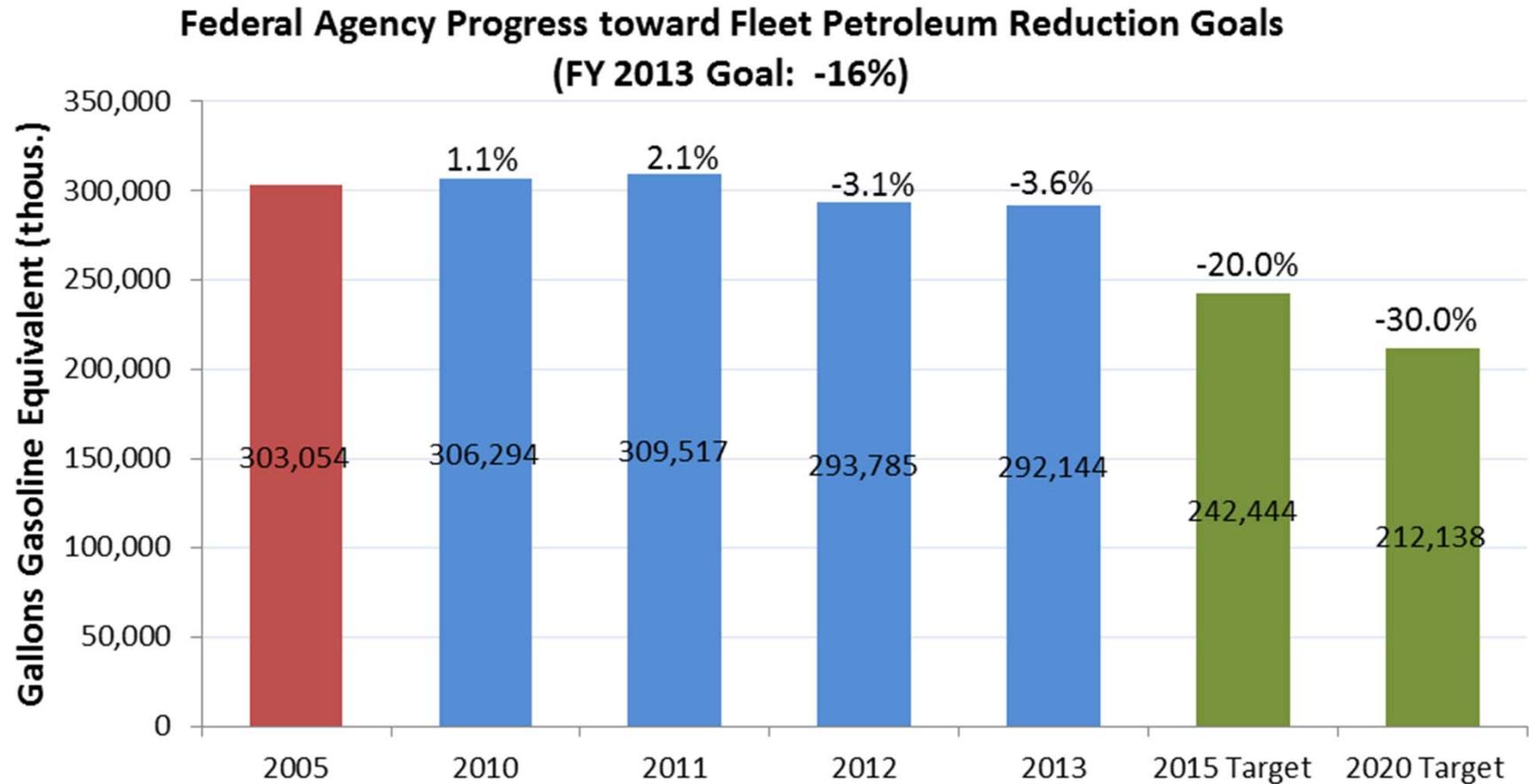
## Federal Agency Progress toward Scope 3 Greenhouse Gas Goals



# Targeted Scope 3 GHG Emissions FY 2008 - FY 2013

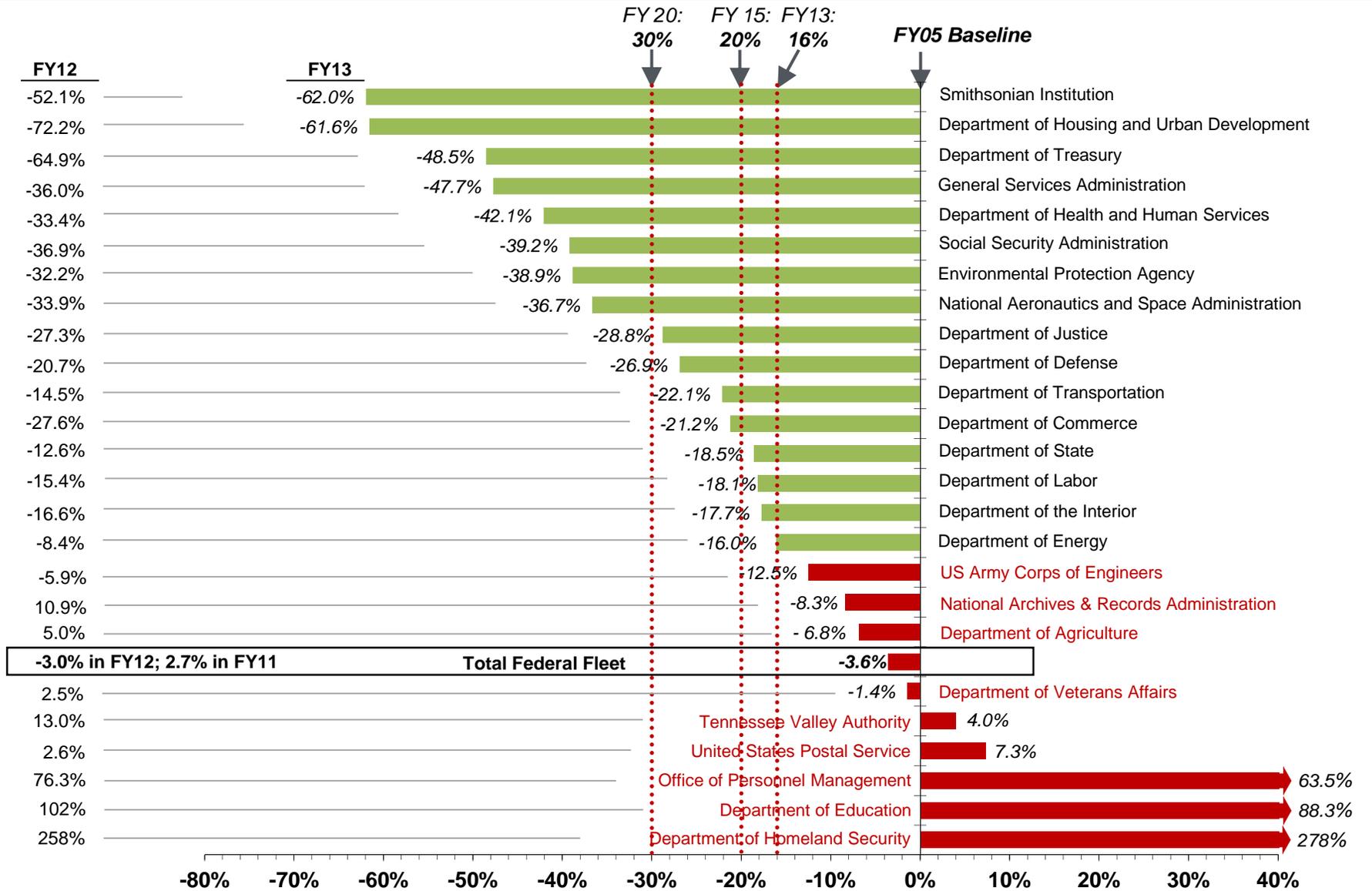


# FY 2012 Petroleum Consumption, Relative to FY 2005 Baseline



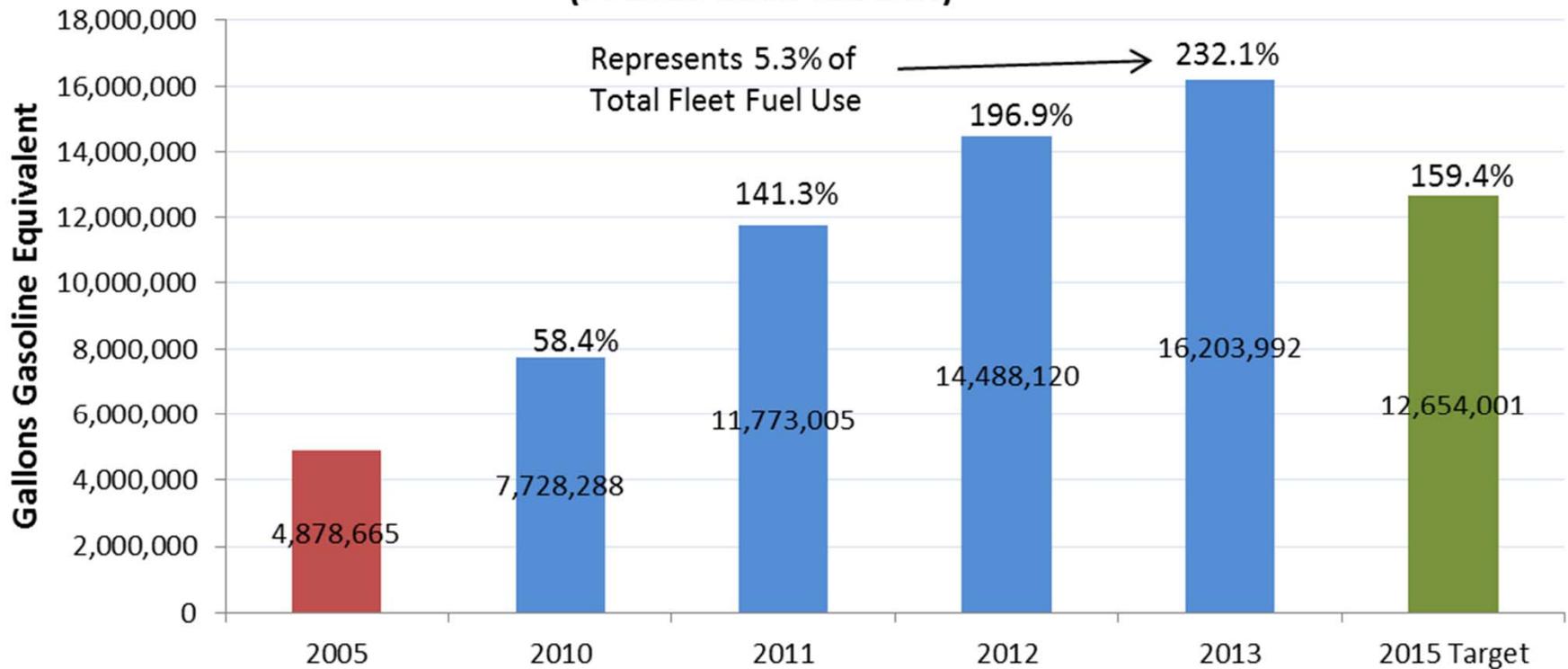
PRELIMINARY DATA

# FY 2013 Petroleum Consumption, Relative to FY 2005 Baseline



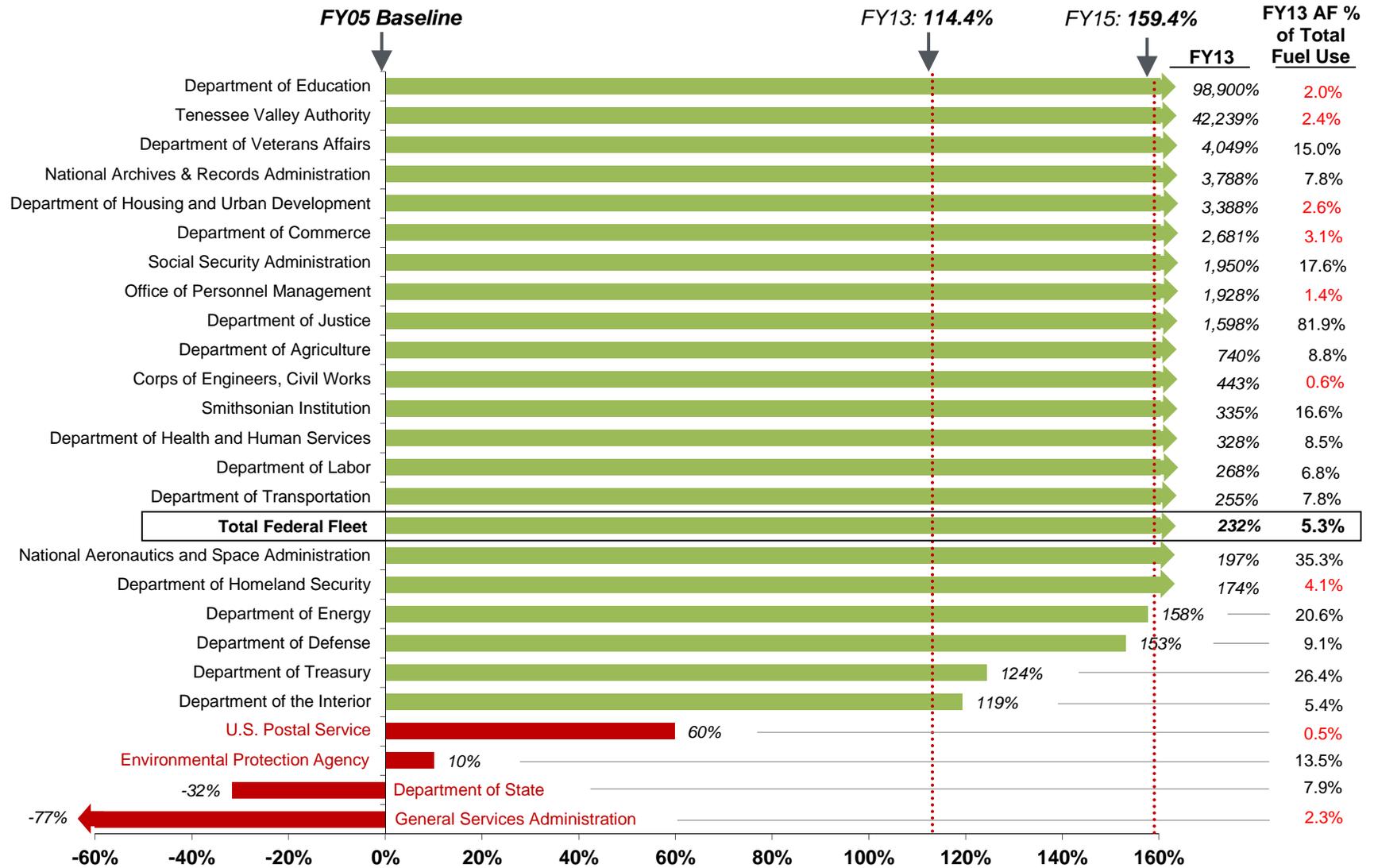
# FY 2012 Alternative Fuel Consumption, Relative to FY 2005 Baseline and Percentage of Fleet Fuel Use

**Federal Agency Progress toward Fleet Alternative Fuel Consumption Goals  
(FY 2013 Goal: +114.4%)**



PRELIMINARY DATA

# FY 2013 Alternative Fuel Consumption, Relative to FY 2005 Baseline

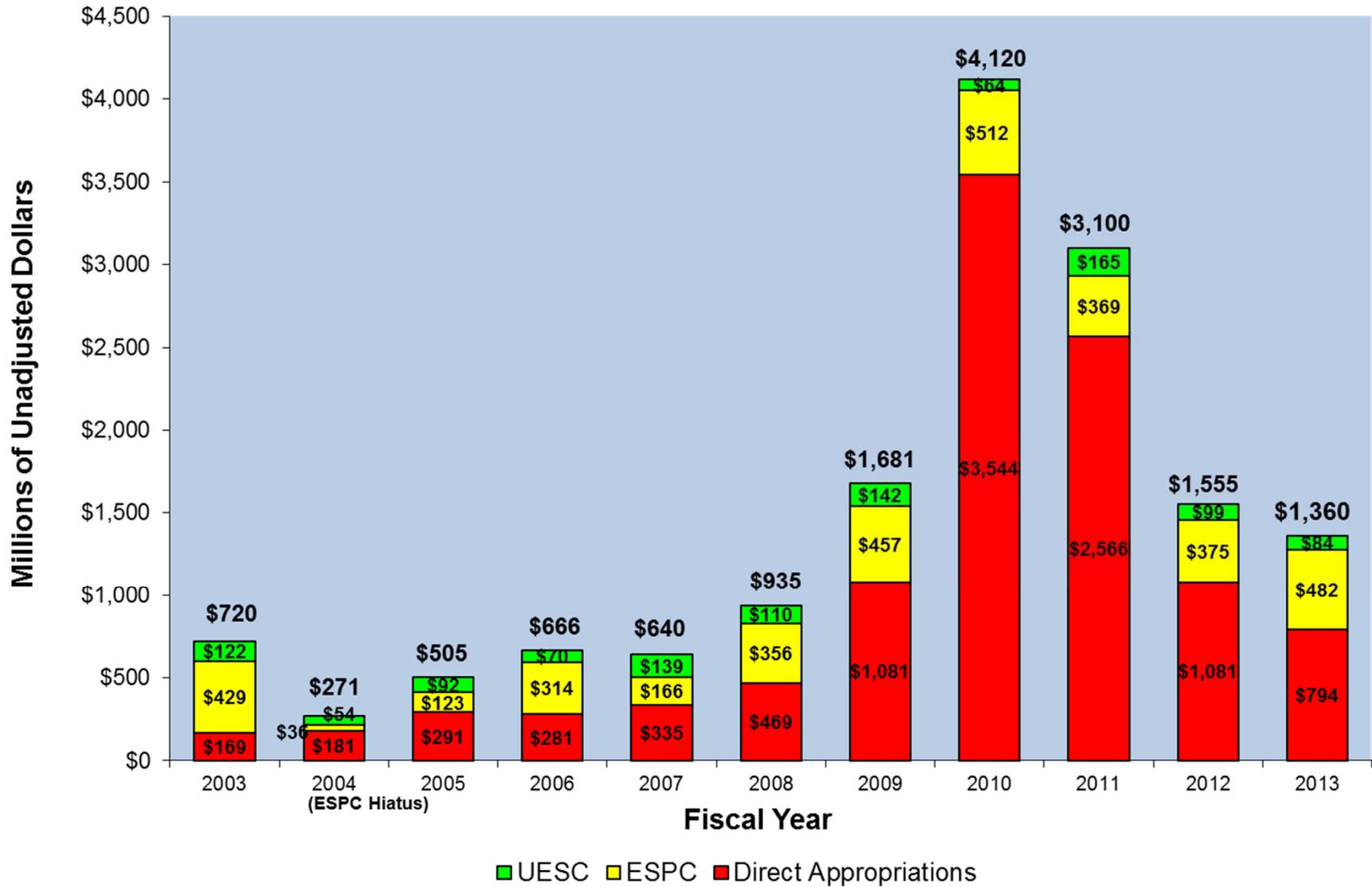


# Federal Facilities: Efficiency Project Investment in FY 2013

Investment in Energy Efficiency and Renewable Energy in FY 2013  
(By source of Funding)

Agency	Funding Mechanism			Total Investment (Thou. \$)
	Direct Obligations	ESPC	UESC	
DOD	\$463,236	\$180,889	\$75,559	\$719,684
VA	\$178,171	\$16,496	\$0	\$194,667
DOE	\$20,707	\$76,860	\$0	\$97,566
GSA	\$12,785	\$81,459	\$0	\$94,244
DOJ	\$394	\$44,783	\$0	\$45,177
NASA	\$9,405	\$29,121	\$704	\$39,229
USDA	\$7,501	\$13,360	\$3,665	\$24,526
DHS	\$18,409	\$4,962	\$0	\$23,371
HHS	\$16,687	\$0	\$3,680	\$20,367
SSA	\$3,244	\$14,568	\$0	\$17,812
USPS	\$17,592	\$0	\$0	\$17,592
DOI	\$14,470	\$3,027	\$0	\$17,497
SI	\$276	\$9,557	\$199	\$10,032
NARA	\$1,500	\$7,336	\$0	\$8,836
TVA	\$8,151	\$0	\$0	\$8,151
USACE	\$8,100	\$0	\$0	\$8,100
EPA	\$5,517	\$0	\$0	\$5,517
DOT	\$2,013	\$0	\$0	\$2,013
DOL	\$1,601	\$0	\$0	\$1,601
TRSY	\$1,128	\$0	\$0	\$1,128
DOC	\$970	\$0	\$0	\$970
State	\$753	\$0	\$0	\$753
OPM	\$0	\$0	\$0	\$0
HUD	\$0	\$0	\$0	\$0
Other	\$1,161	\$0	\$0	\$1,161
<b>Total</b>	<b>\$793,770</b>	<b>\$482,417</b>	<b>\$83,808</b>	<b>\$1,359,995</b>

# Federal Facilities: Investment in Resource Efficiency Projects



PRELIMINARY DATA