



## Washington Update

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Department of Energy

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# Agenda

- Federal Progress Toward Energy and Sustainability Goals for FY 2015
  - GHG Emissions
  - Energy Intensity Reduction
  - Performance Contracting
  - Renewable Energy Use
  - Potable Water Intensity Reduction
- Presidential Performance Contracting Challenge Update
- Energy Exchange 2016





**Progress Toward Energy  
and Sustainability Goals  
for FY 2015**

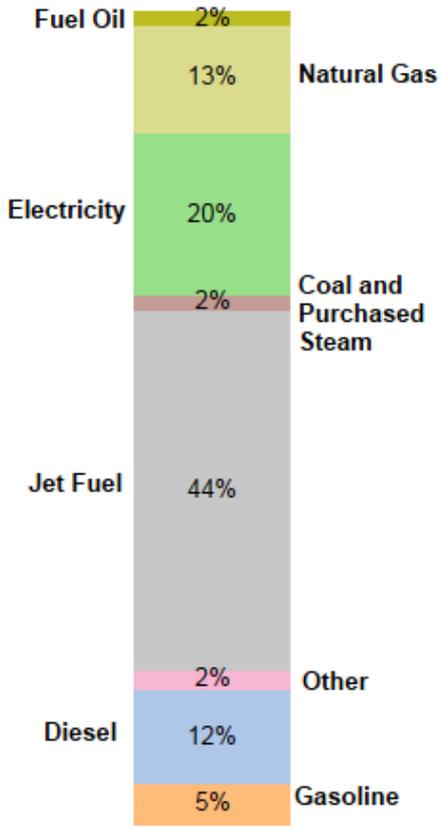
# Key Findings for FY 2015

- **Scope 1&2 GHG emissions declined 17.6% from FY08**
- **Facility energy intensity fell short of the 30% goal with a 22.7% reduction from FY03; Btu/square foot reduced 2.2% from prior year**
- **Renewable energy goal of 7.5% was exceeded (8.3% of electricity use)**
- **Potable water reduction goal of 16% was exceeded (21.9% reduction)**
- **Efficiency investment in Federal facilities increased 15.6% from FY14**
  - **Direct funding investment: \$1,388 million**
  - **ESPC investment: \$466 million in FY15**
  - **UESC Investment: \$126 million in FY15**

# Overview of Federal Energy Consumption by Fuel Type, End-Use, & GHG Emissions

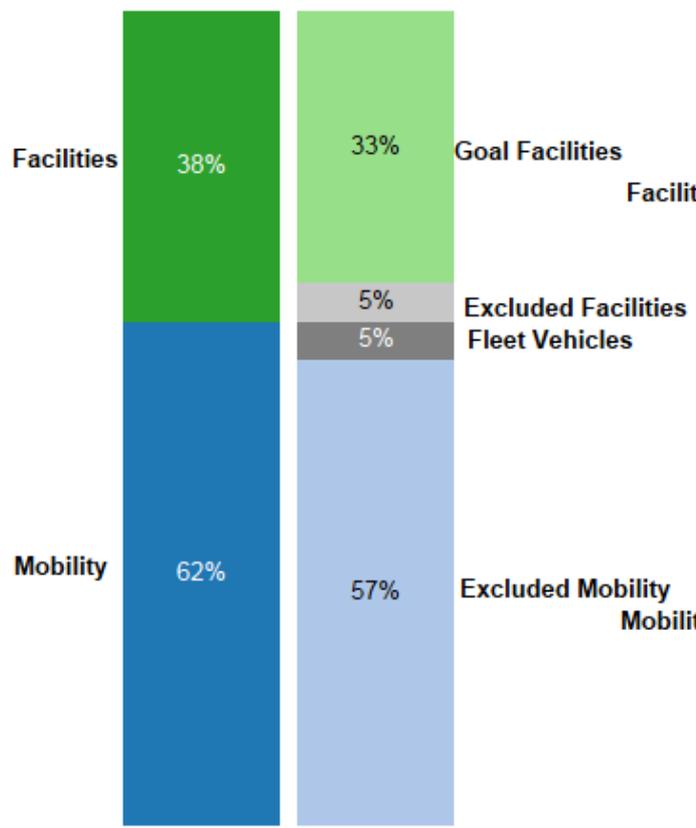
***FY 2015 Federal Energy Consumption and GHG Emissions:  
0.95 Quadrillion Btu, \$21 Billion; 83 Million MTCO<sub>2</sub>e***

Consumption by Fuel Type



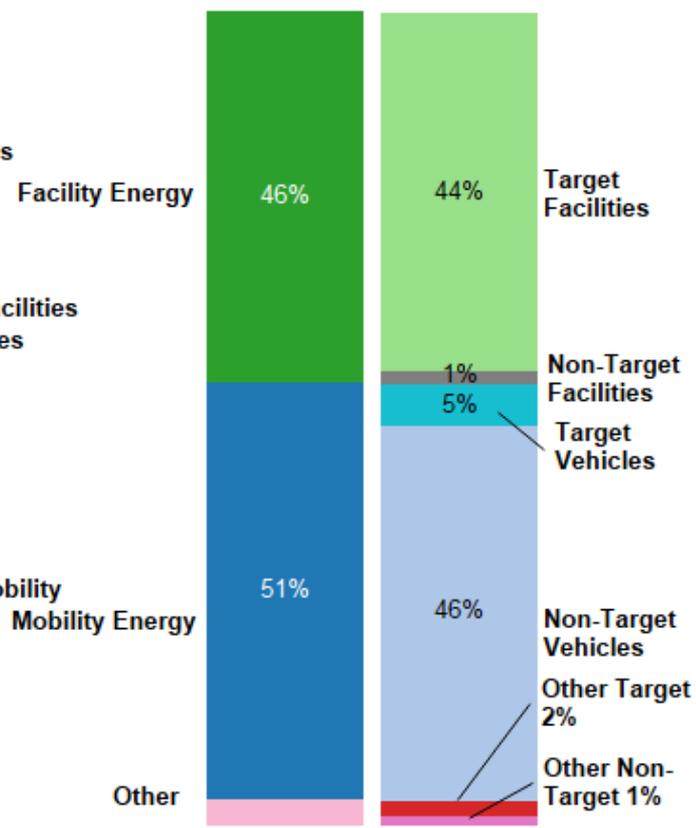
**Total: 947.0 Trillion Btu**

End-Use Sector



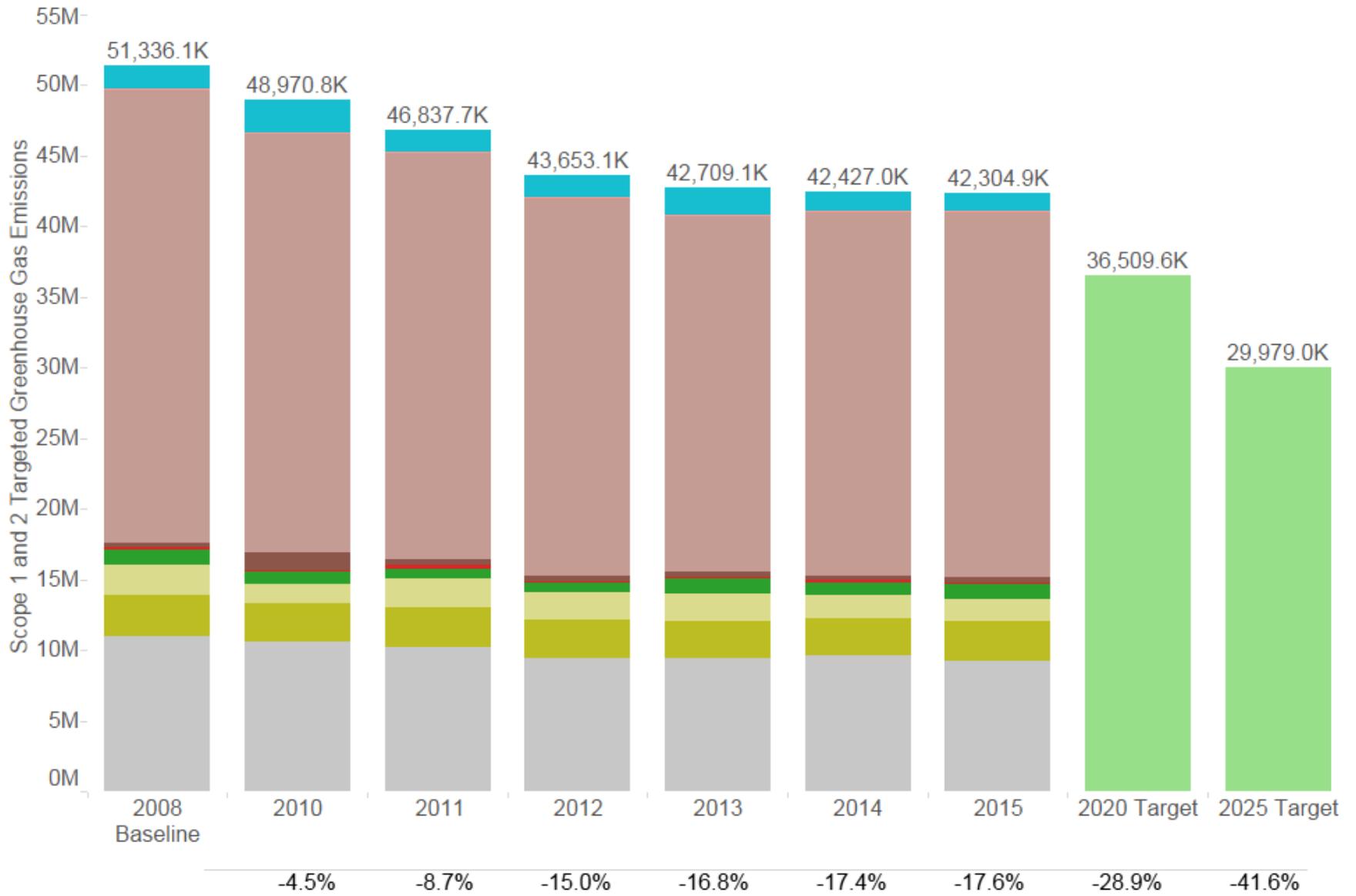
**Total: 947.0 Trillion Btu  
Goal-Subject: 361.1 Trillion Btu**

Scope 1 and 2 GHG Emissions



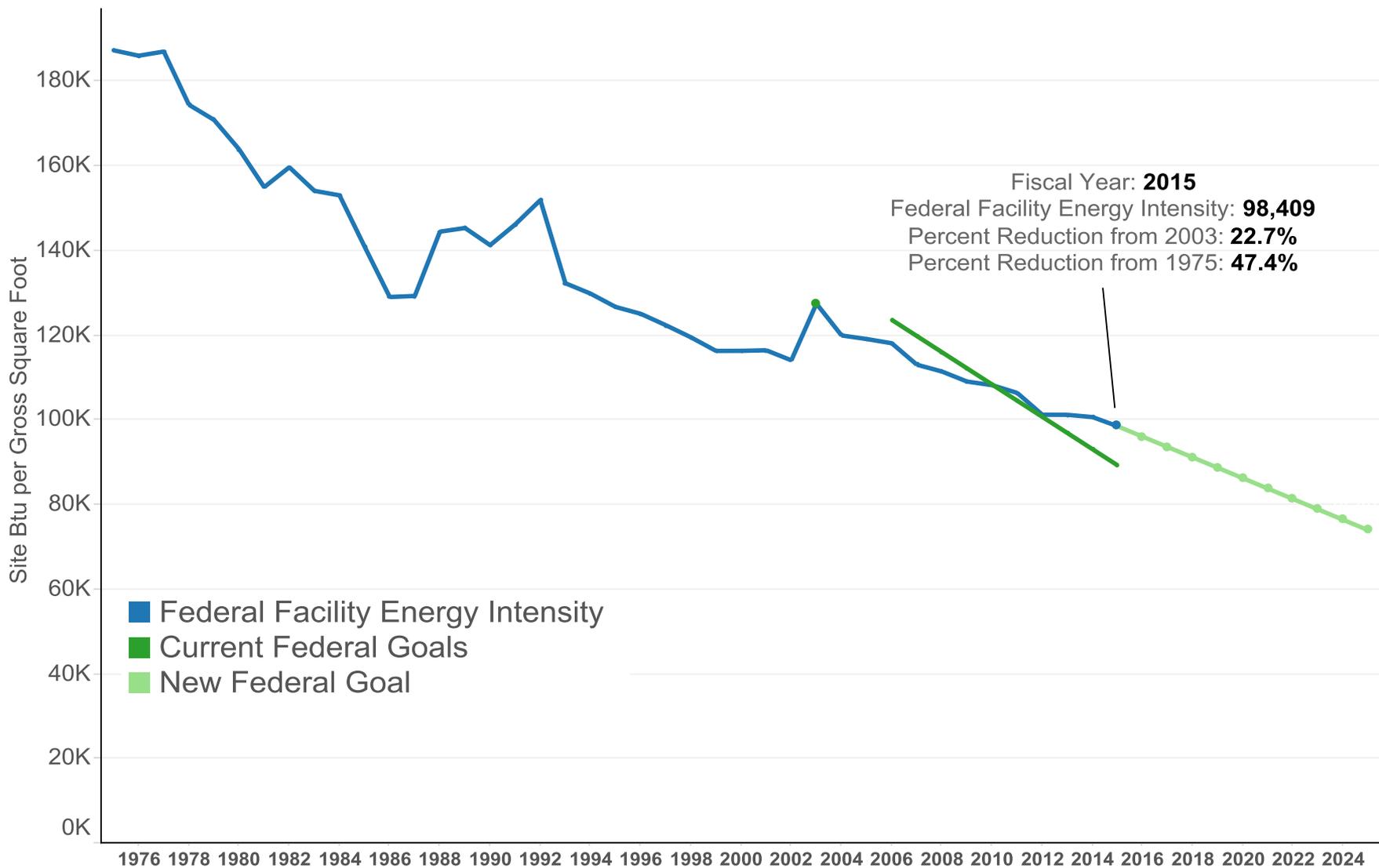
**Total: 82.7 Million MTCO<sub>2</sub>e  
Targeted: 42.3 Million MTCO<sub>2</sub>e**

# Federal Agency Progress Toward Scope 1 and 2 Greenhouse Gas Reduction Goal



- Steam and Hot Water
- Other
- Vehicles and Equipment
- Target Emissions Total
- Chilled Water
- Industrial Process Emissions
- Covered Fleets
- Fugitive Emissions and Incinerators
- Stationary Combustion
- Net Electricity Emissions

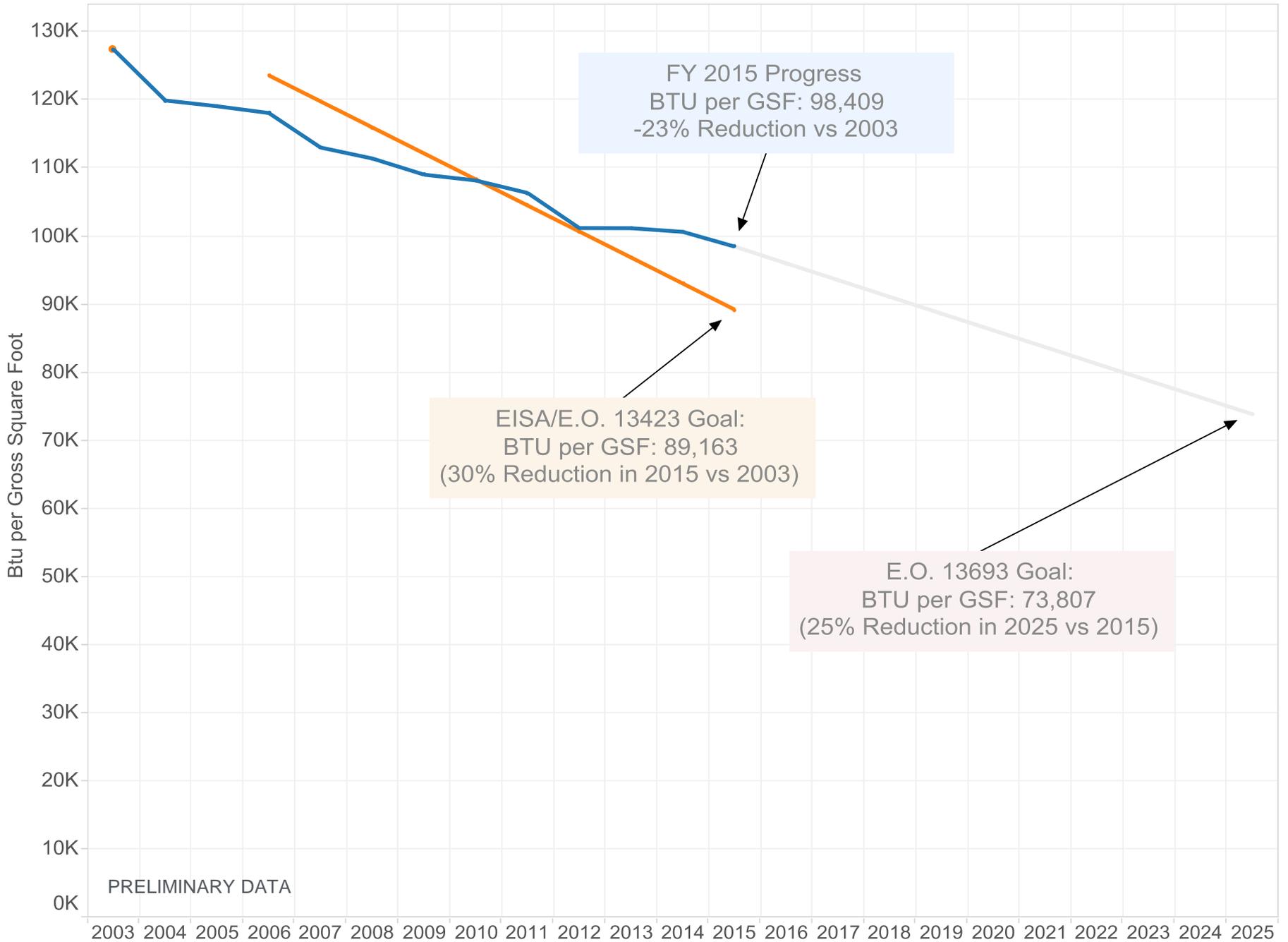
# The Long Road to Progress



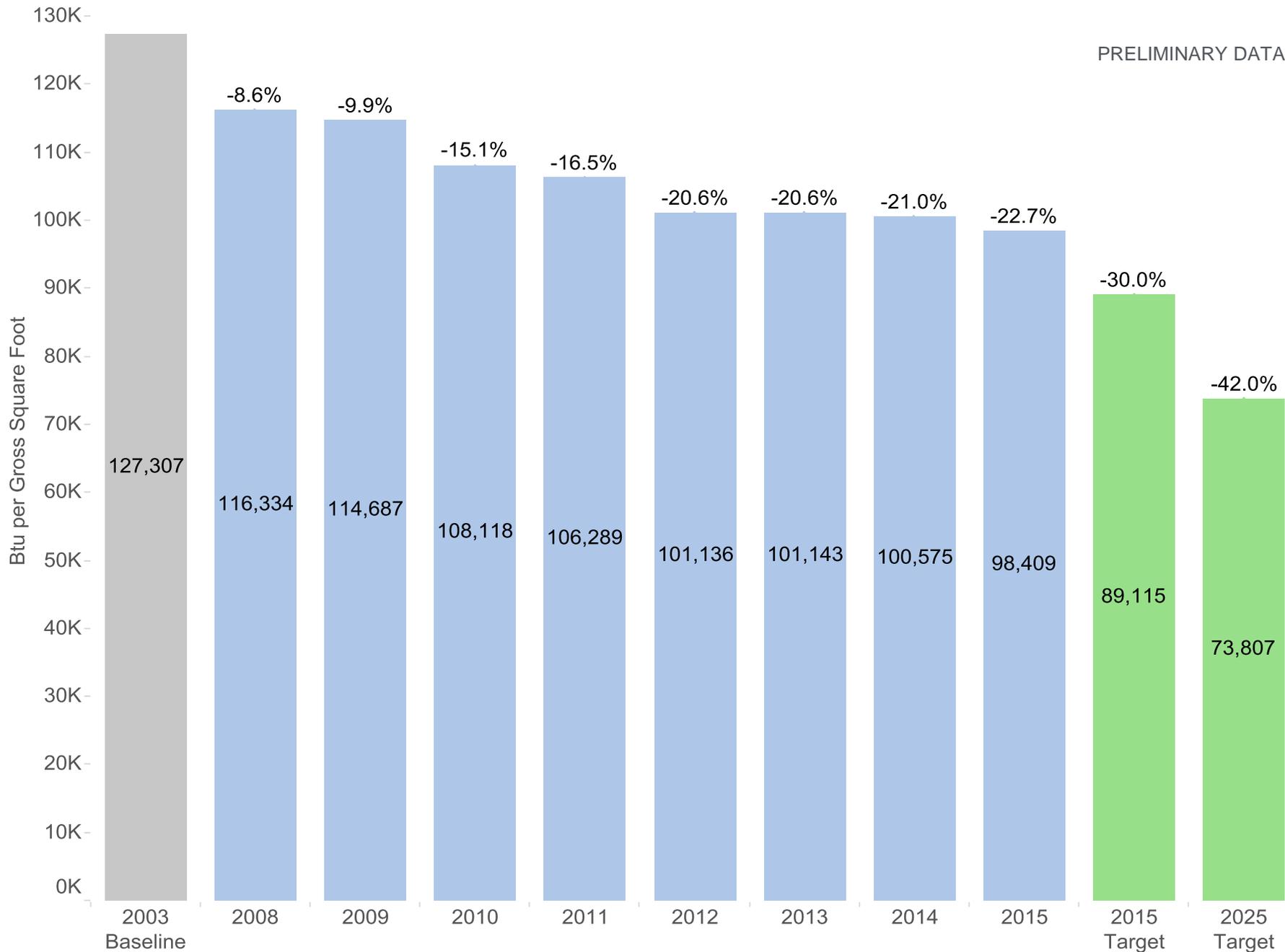
Fiscal Year: **2015**  
Federal Facility Energy Intensity: **98,409**  
Percent Reduction from 2003: **22.7%**  
Percent Reduction from 1975: **47.4%**

- Federal Facility Energy Intensity
- Current Federal Goals
- New Federal Goal

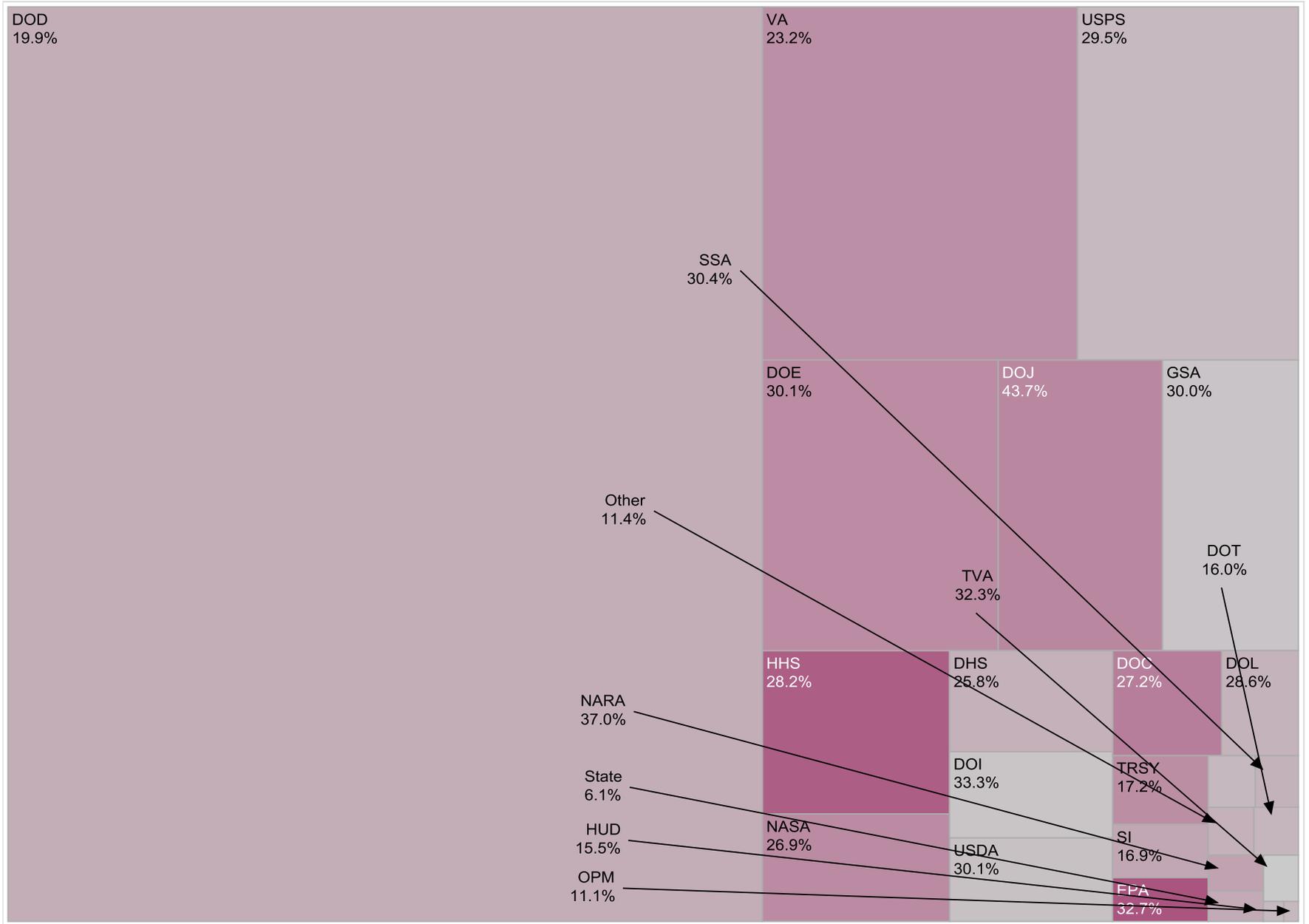
# Overall Government Progress Toward Facility Energy Efficiency Goals, FY 2003 - FY 2015



# Federal Agency Facility Energy Intensity and Percent Reductions from 2003



# Goal Building Energy Use, Intensity and Reduction Progress 2015 vs 2003

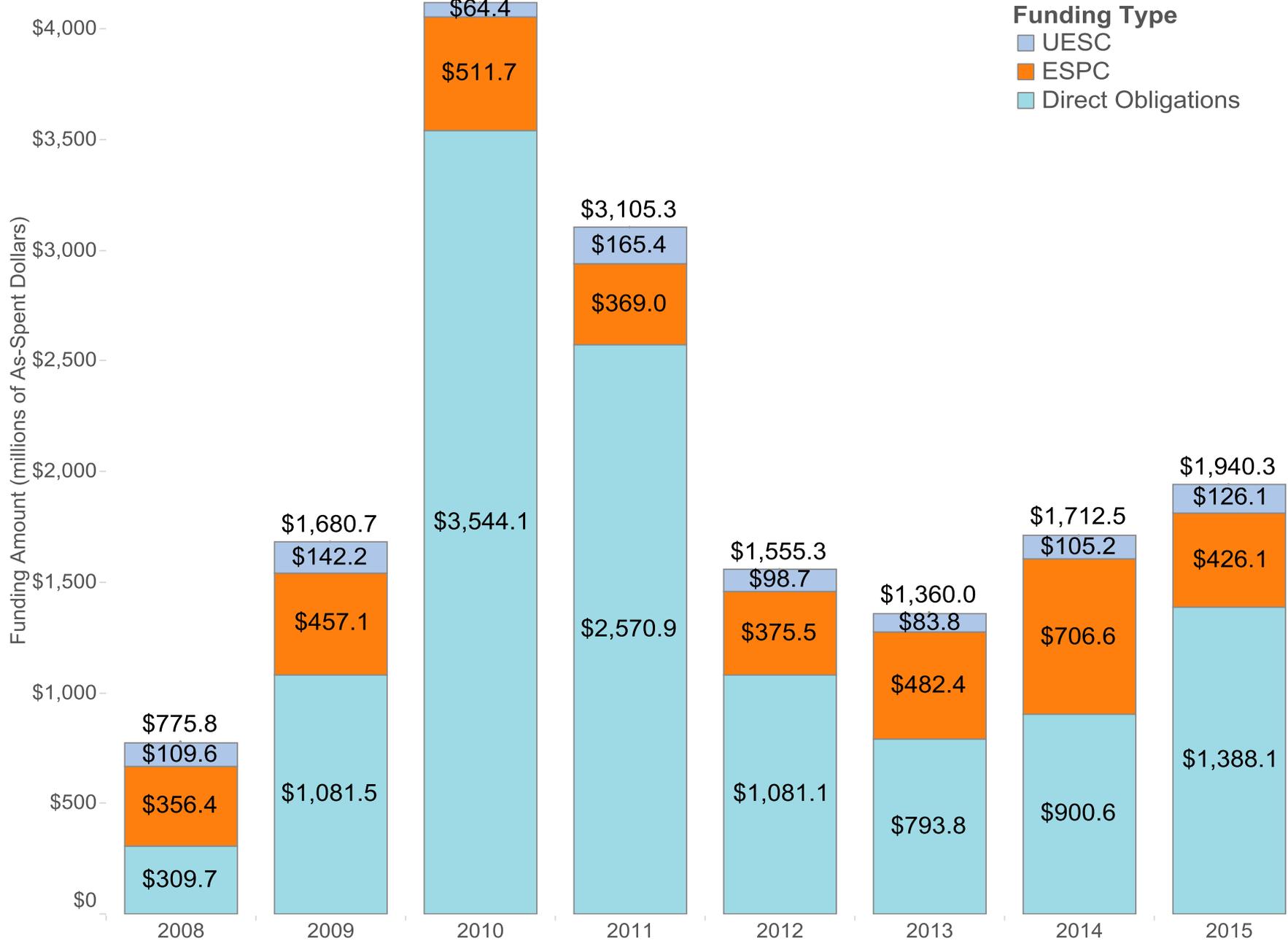


PRELIMINARY DATA



# Federal Agency Performance Contracting Awarded Investment (\$Million)

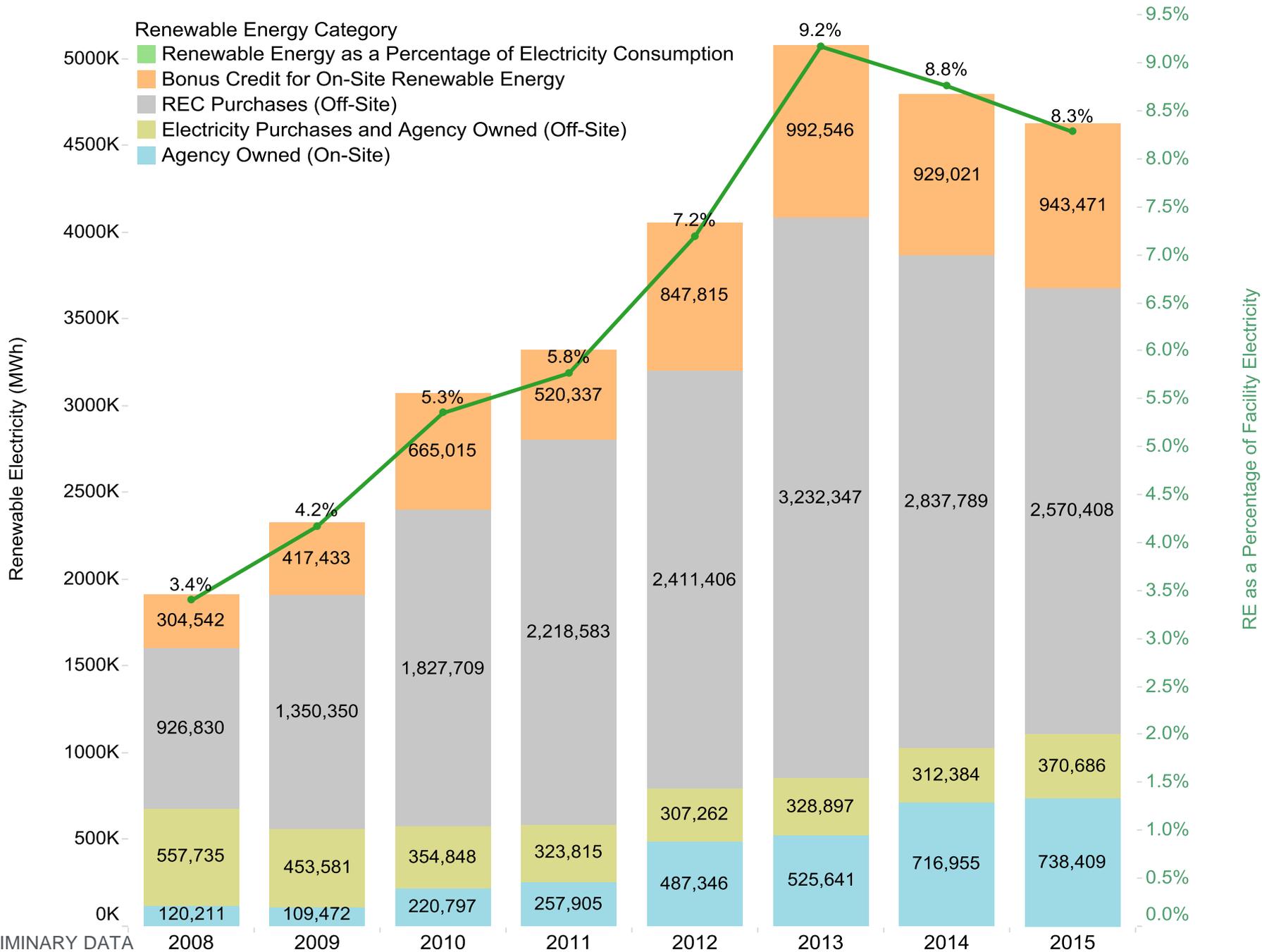
PRELIMINARY DATA



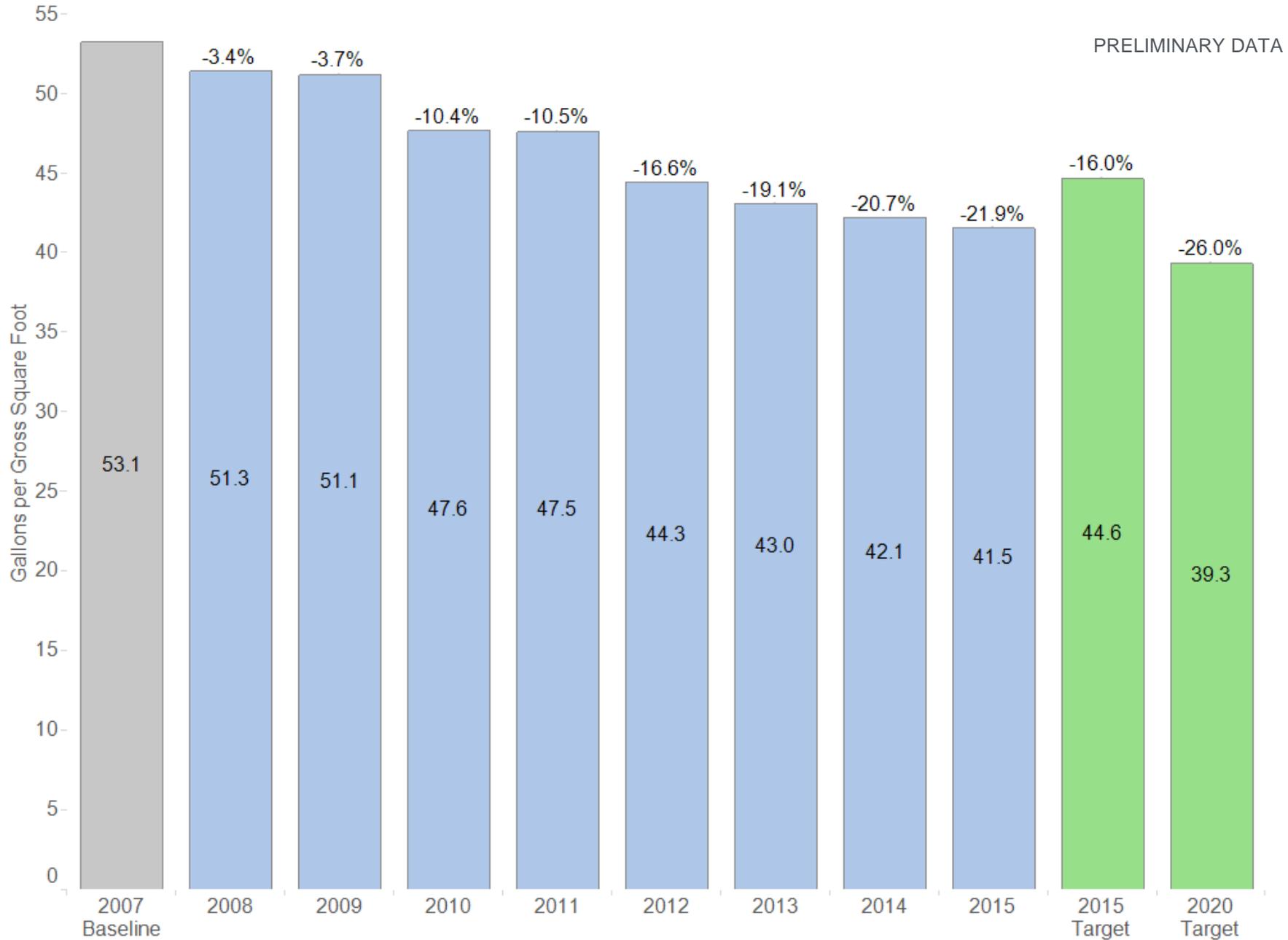
# Total Government Use of Renewable Energy as a Percentage of Total Electric Energy

## Renewable Energy Category

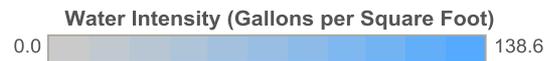
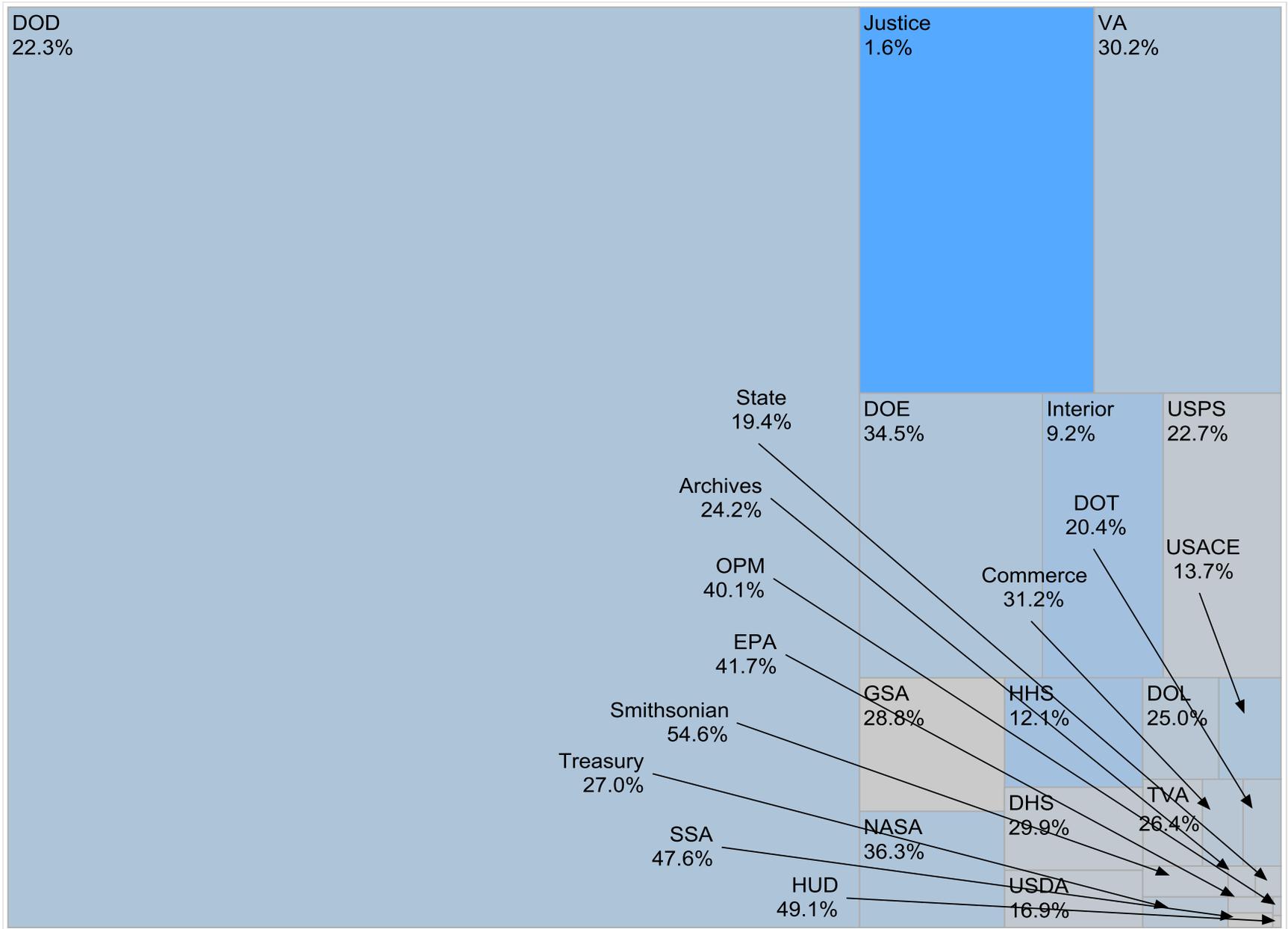
- Renewable Energy as a Percentage of Electricity Consumption
- Bonus Credit for On-Site Renewable Energy
- REC Purchases (Off-Site)
- Electricity Purchases and Agency Owned (Off-Site)
- Agency Owned (On-Site)



# Federal Agency Progress Toward the Potable Water Intensity Reduction Goal



# Potable Water Use, Intensity and Reduction Percentage 2015 vs. 2007

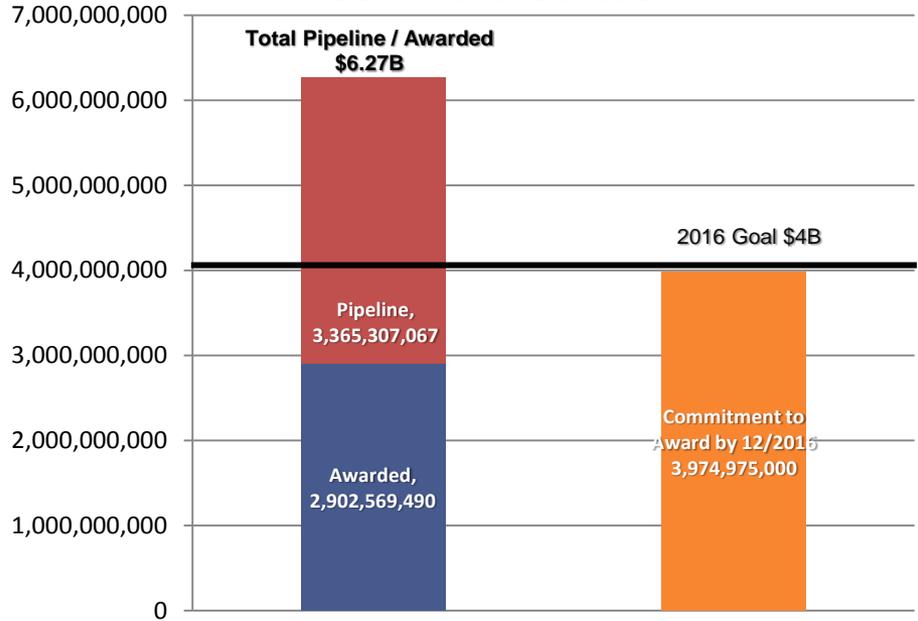




# **Presidential Performance Contracting Challenge Update**

# President's Performance Contracting Challenge Status

## PPCC Award Status

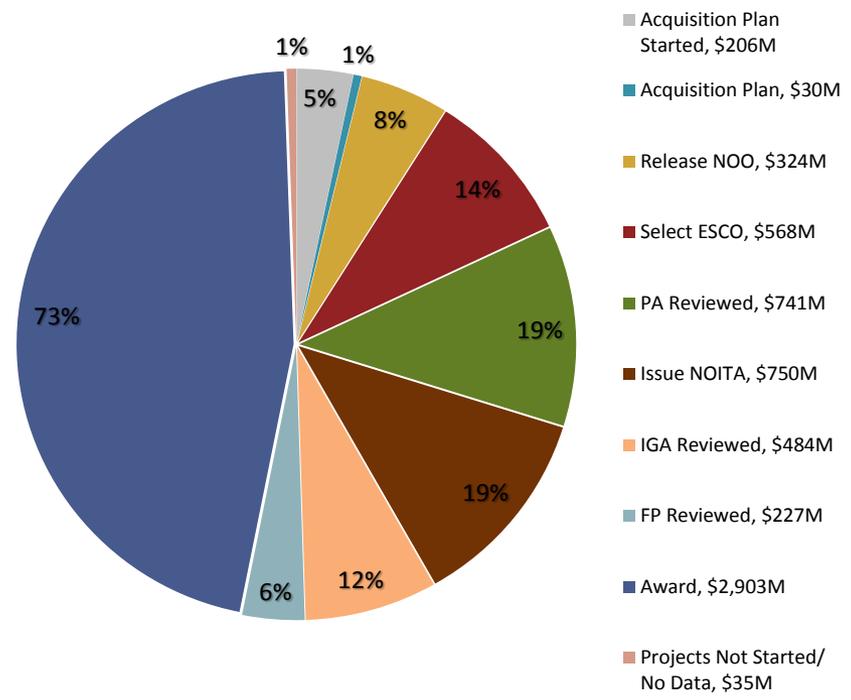


**Pipeline:** Amount of project costs in procurement process and expected to award.

**Awarded:** Amount of project costs awarded.

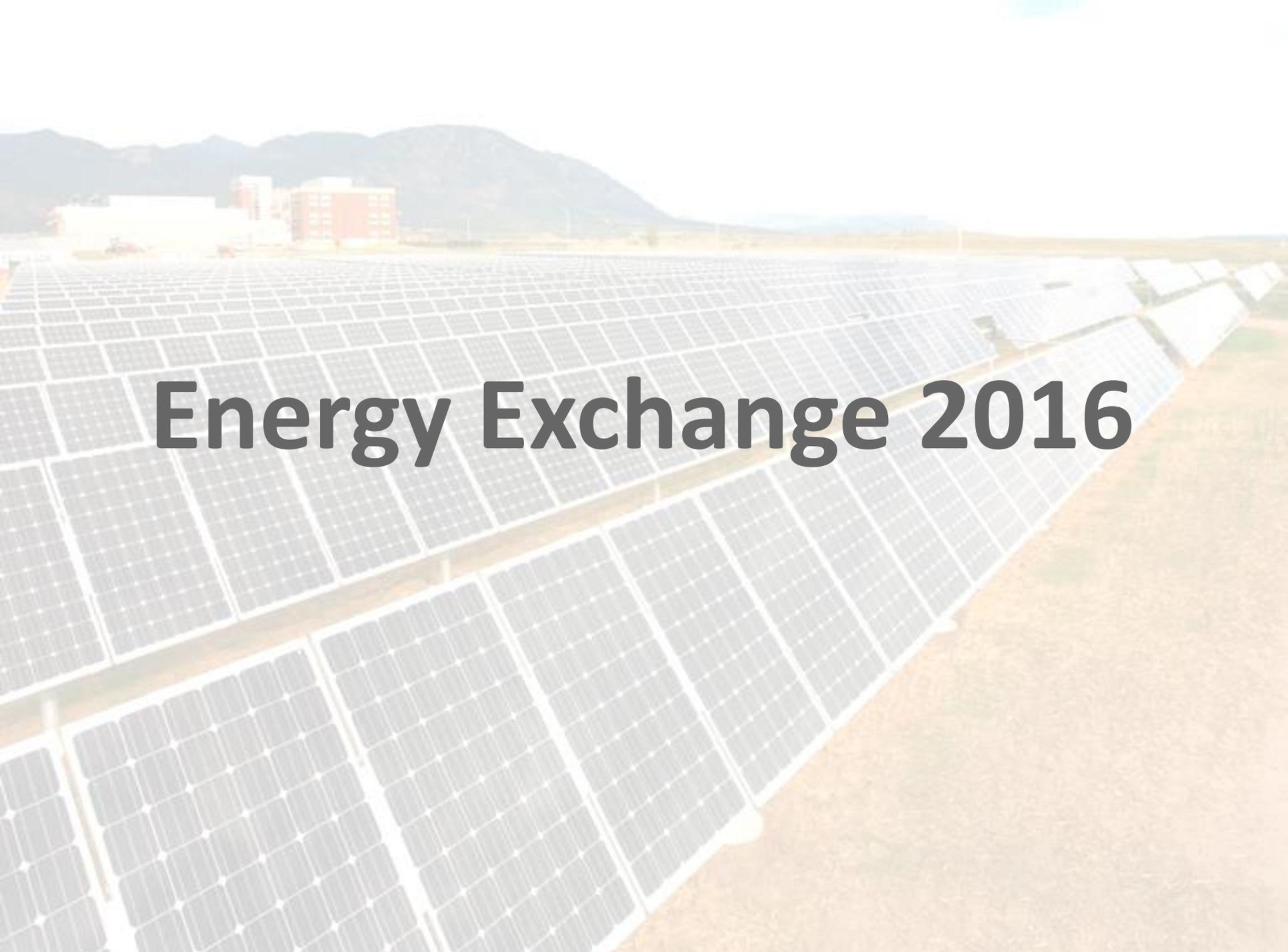
**Agency Commitments:** Amount in project costs committed to. Total of pipeline and awarded values may exceed commitment value due to additional projects beyond original agency baselines.

As of April 15, 2016



**Note:** Sum of percentages equals 158% due to agency pipeline development exceeding \$4B PPCC goal.

- Acquisition Plan Started:** Projects in the process of acquisition
- Acquisition Plan Completed:** Completion of agency's acquisition
- Release NOO:** Release of the Notice of Opportunity to perform a performance contract.
- Select ESCO:** Selection of the Energy Service Company that will perform the work.
- PA Reviewed:** Review of the Preliminary Assessment outlining the work to be completed.
- Issue NOITA:** Issuance of the Notice of Intent to Award the contract
- IGA Reviewed:** Review of the Investment Grade Audit and cost/savings proposal.
- Submit FP:** Submission of the Final Proposal
- Award:** Awarding of the contract to the energy service company



# Energy Exchange 2016

# Energy Exchange 2016



**Training & Trade Show August 9-11, 2016**  
*[femp.energy.gov/energyexchange](http://femp.energy.gov/energyexchange)*

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

# Energy Exchange – 14 Technical Tracks

**Track 1: Energy 101**

**Track 2: Energy Technologies**

**Track 3: Project Financing**

**Track 4: Energy Resilience to Achieve Mission Assurance**

**Track 5: Better Building Energy Management**

**Track 6: People Matter: Institutional Change in Action**

**Track 7: Policy and Leadership**

**Track 8: Leadership in Sustainability**

**Track 9: Energy Intensive Buildings**

**Track 10: Strategic Energy Master Planning: Portfolio, Installation, and Campus**

**Track 11: Integrated Energy**

**Track 12A: Utilities**

**Track 12B: Data, Dashboards & Decisions**

**Track 13A: Renewable Energy**

**Track 13B: FEMP Services**

**Track 14: Federal Fleet Management**

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