

Federal Progress Toward Energy/ Sustainability Goals

August 4, 2016

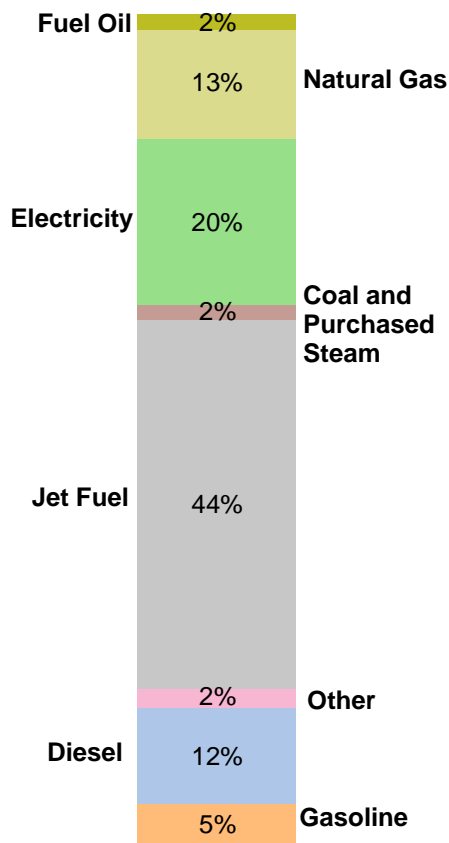
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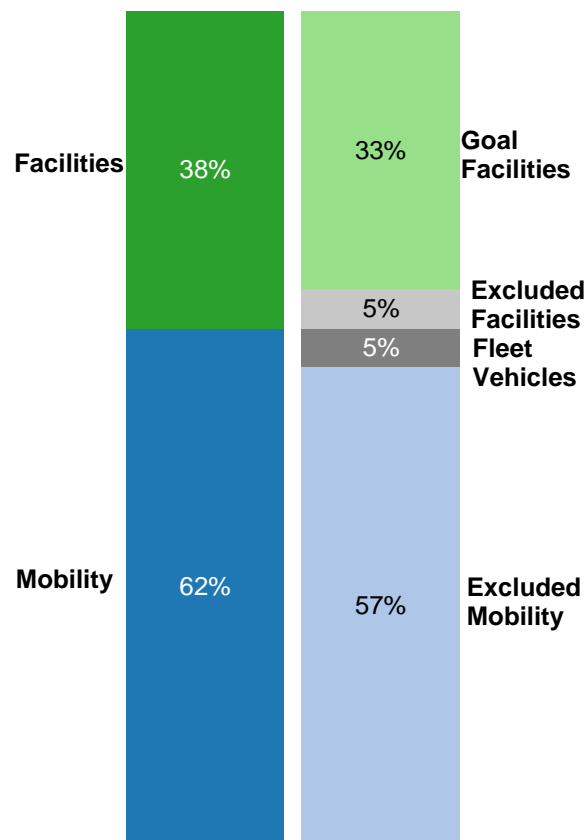
Overview of Federal Energy Consumption by Fuel Type, End Use, & GHG Emissions

Fiscal Year 2015 Federal Energy Consumption and GHG Emissions:
0.95 Quadrillion Btu, \$21 Billion, 83 Million MTCO_{2e}

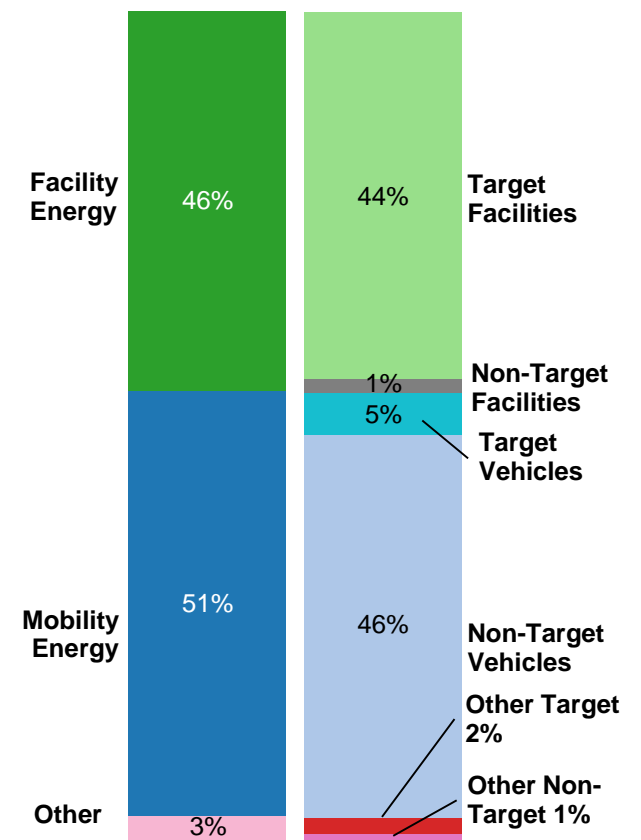
Consumption by Fuel Type



End-Use Sector



Scope 1 and 2 GHG Emissions



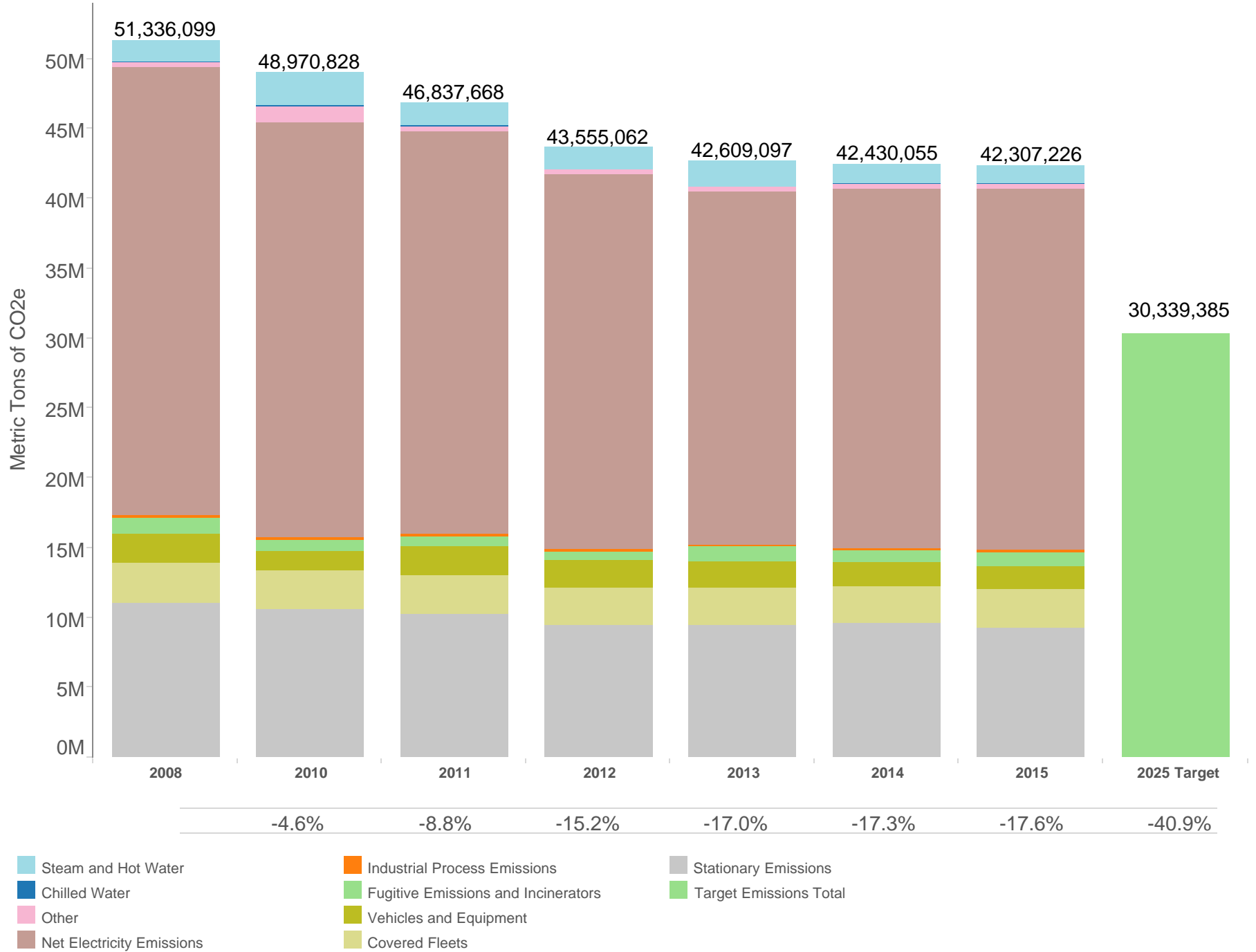
Pre-Existing Federal Goals vs. New E.O. 13693 Targets

Goals	Existing Goals	New E.O. 13693 Targets
Building Energy Intensity (Btu/Sqft) Reduction	30% (in 2015) Baseline 2003	25% (by 2025) Baseline 2015
Clean Energy Use as a Percentage of Facility Electric and Thermal Energy Use	None	25% (by 2025)
Renewable Electricity Use as a Percentage of Facility Electricity Use	7.5% (in 2015)	30% (by 2025)
Potable Water Use Intensity (Gal/Sqft) Reduction	16% (in 2015) Baseline 2007	36% (by 2025) Baseline 2007
Industrial/Landscaping/Agriculture Non-Potable Water Reduction (Gal)	10% (in 2015) Baseline 2010	30% (by 2025) Baseline 2010
Gov't-wide Scope 1&2 GHG Emissions Reduction	28% (by 2020) Baseline 2008	40% (by 2025) Baseline 2008
Gov't-wide Scope 3 GHG Indirect Emissions Reduction	13% (by 2020) Baseline 2008	28% (by 2025) Baseline 2008

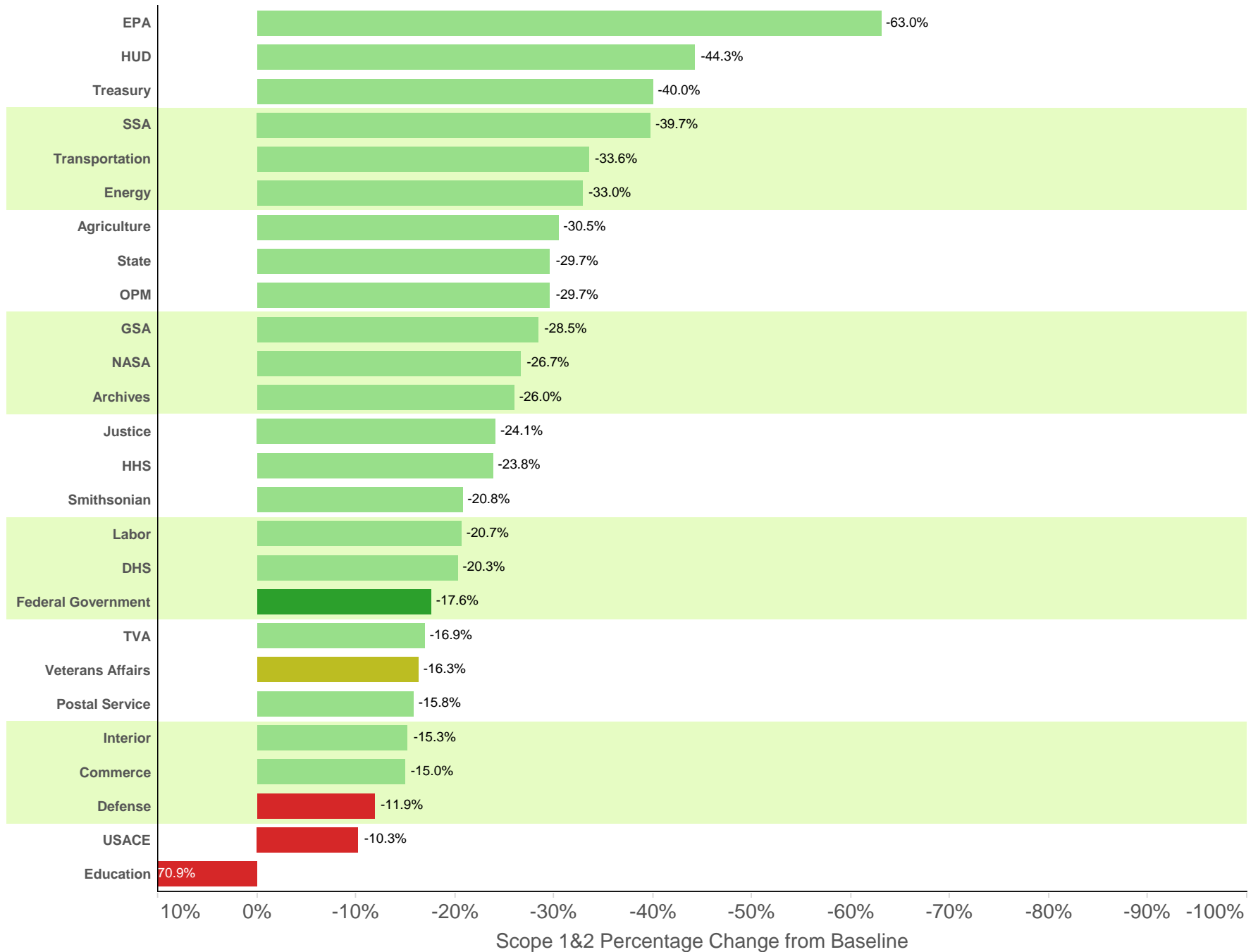
Key Findings for FY 2015

- Scope 1&2 GHG emissions declined 17.6% from FY08
- Scope 3 indirect GHG emissions decreased 17.5% from FY08
- Facility energy intensity fell short of the 30% goal with a 22.7% reduction from FY03; Btu/Sqft reduced 2.2% from prior year
- Renewable energy goal of 7.5% was exceeded (8.3% of electricity use)
- Potable water intensity reduction goal of 16% was exceeded (21.8% reduction vs. 2007) (Goals: 26% in 2020, 36% in 2025)
- Industrial/Landscaping/Agricultural (non-potable) water use was reduced 27% vs. 2010 (Goals: 20% in 2020, 30% in 2025)
- 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

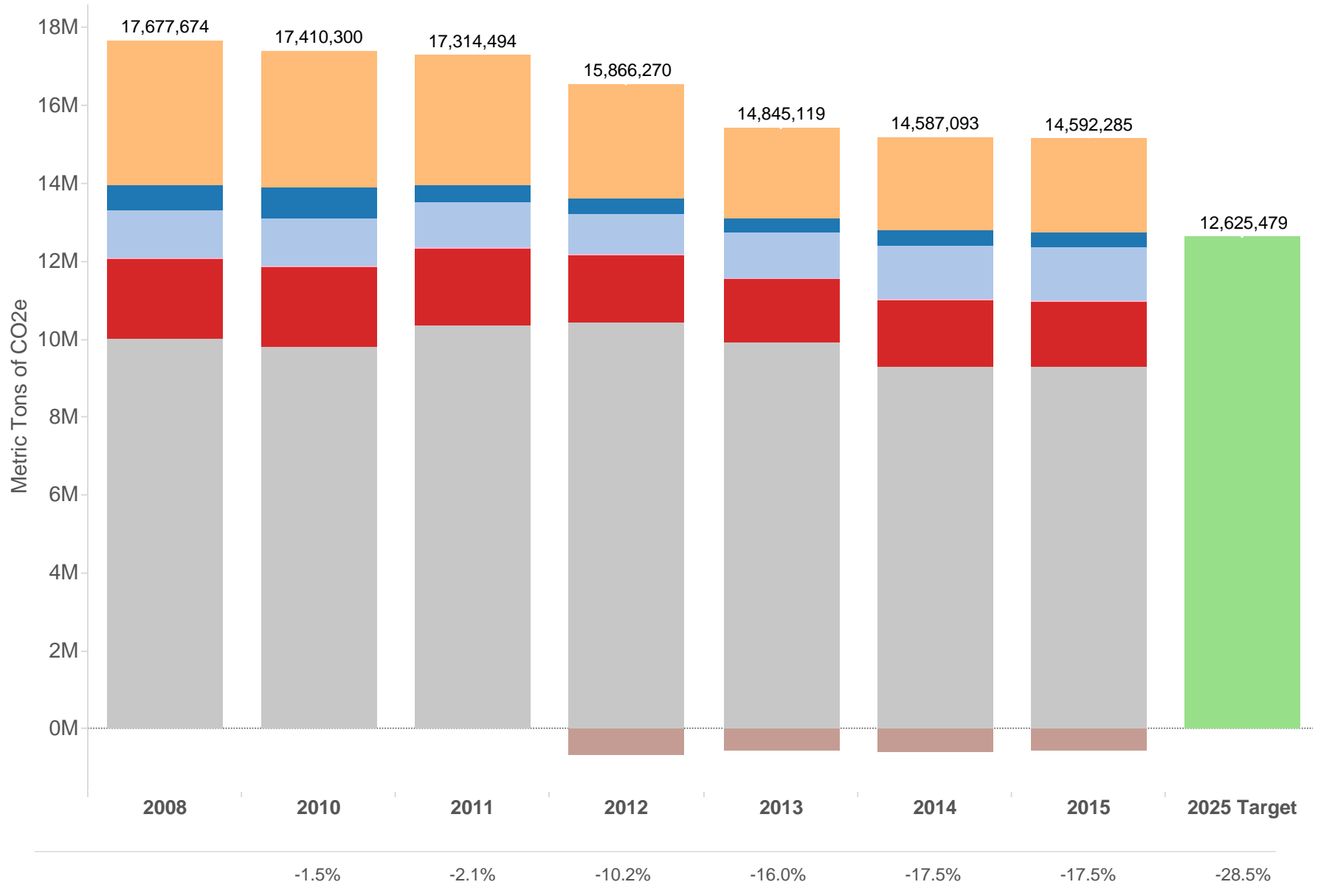
Federal Government Progress toward Scope 1 and 2 Greenhouse Gas Reduction Goal



Percentage Reduction in Scope 1 and 2 GHG Emissions FY 2008 - FY 2015

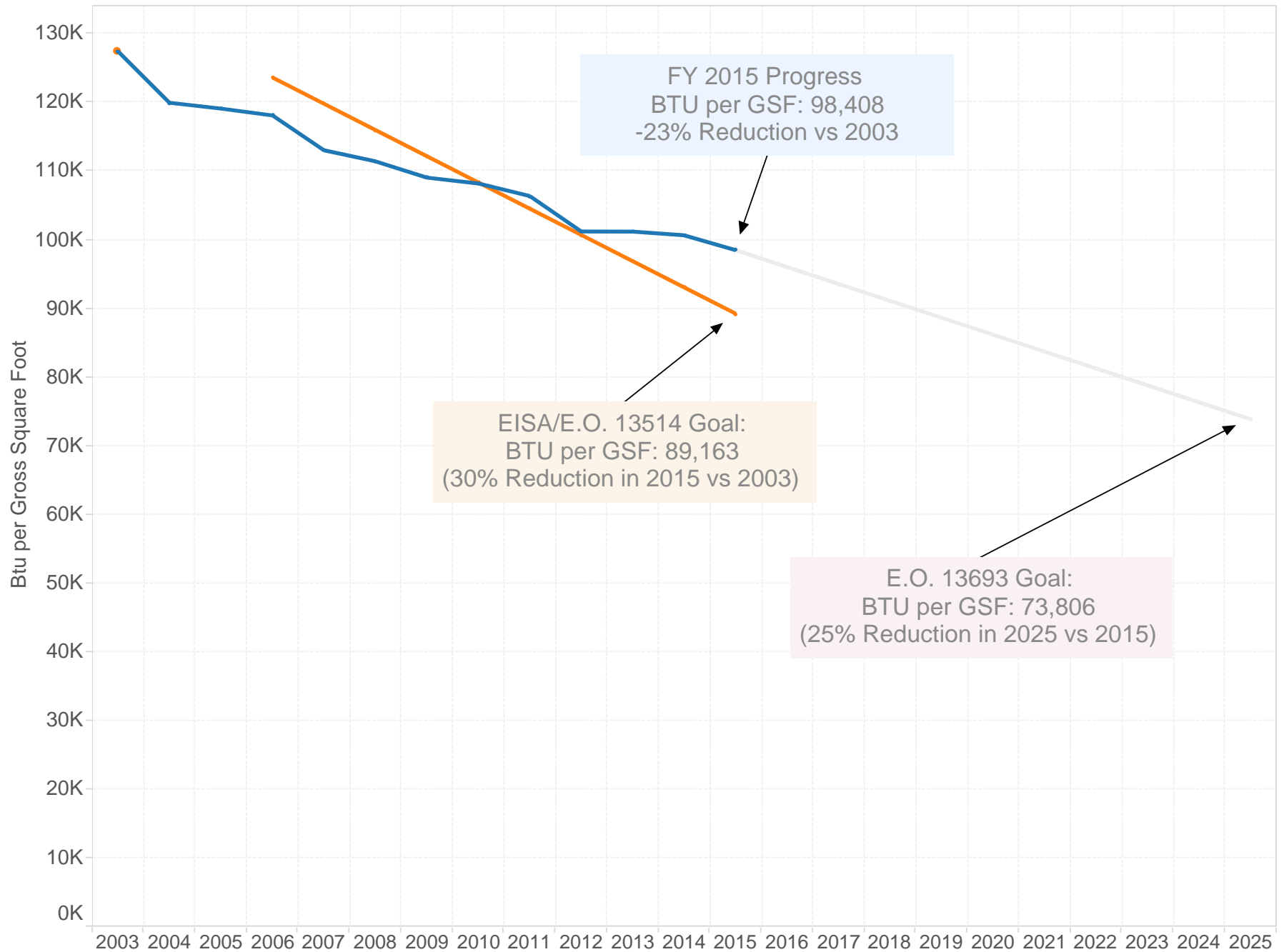


Federal Government Progress toward Scope 3 Greenhouse Gas Reduction Goal

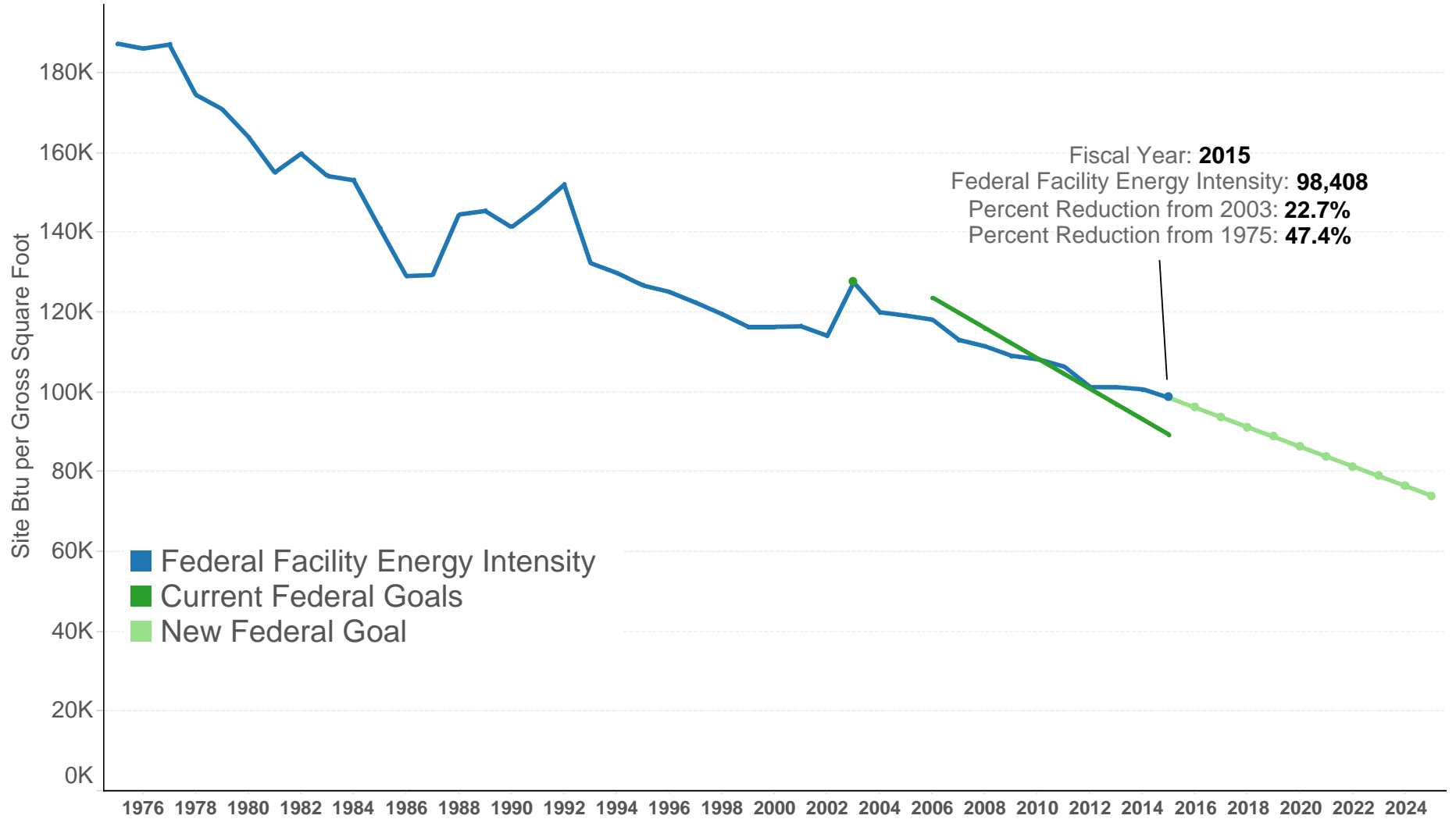


- Business Air Travel
- Business Ground Travel
- Contracted Solid Waste
- Contracted Wastewater Treatment
- Electricity T&D Losses
- Employee Commuting
- Renewable Energy Hosting Credit
- Scope 3 Target Emissions

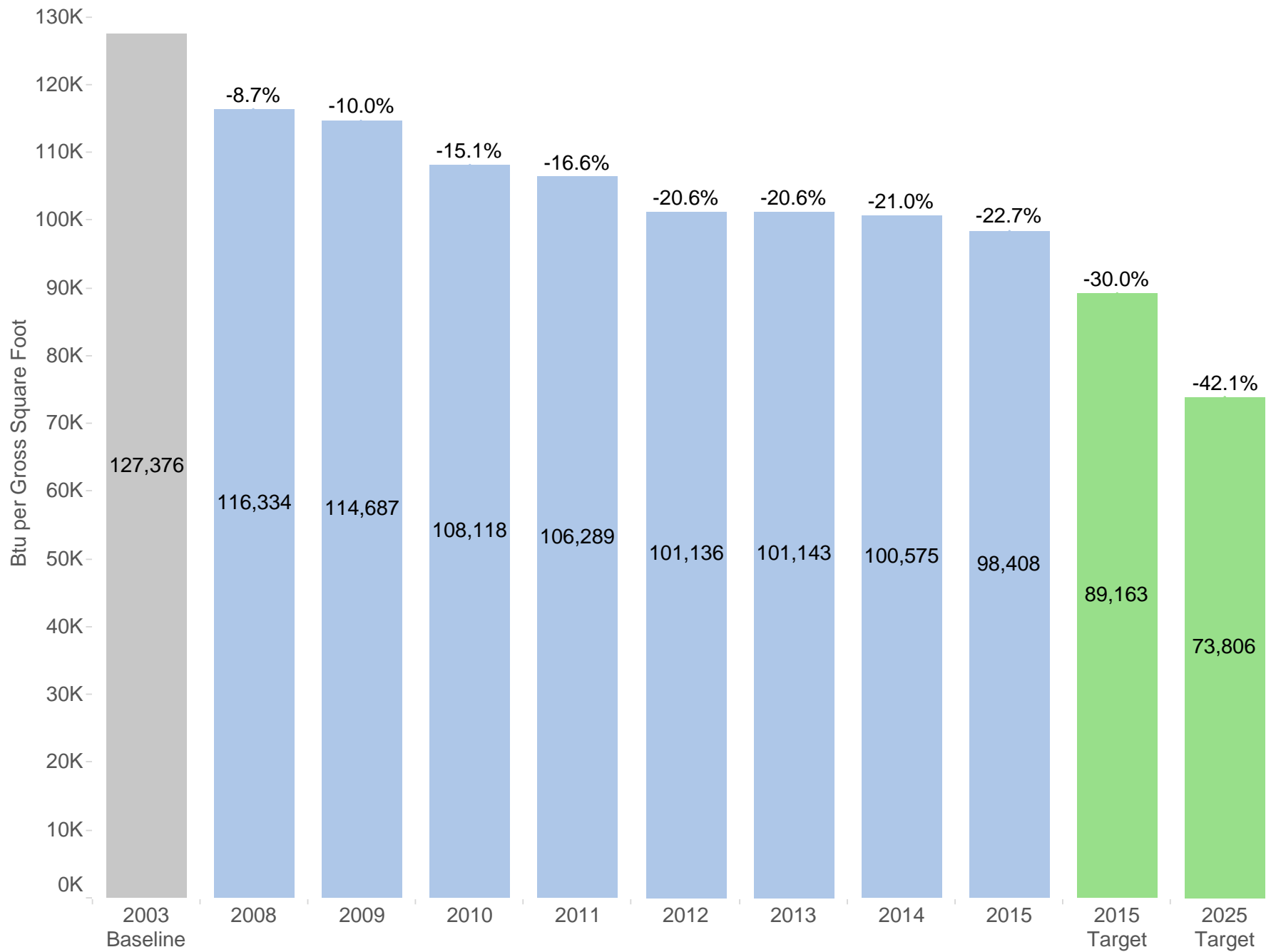
Overall Government Progress Toward Facility Energy Efficiency Goals, FY 2003 - FY 2015



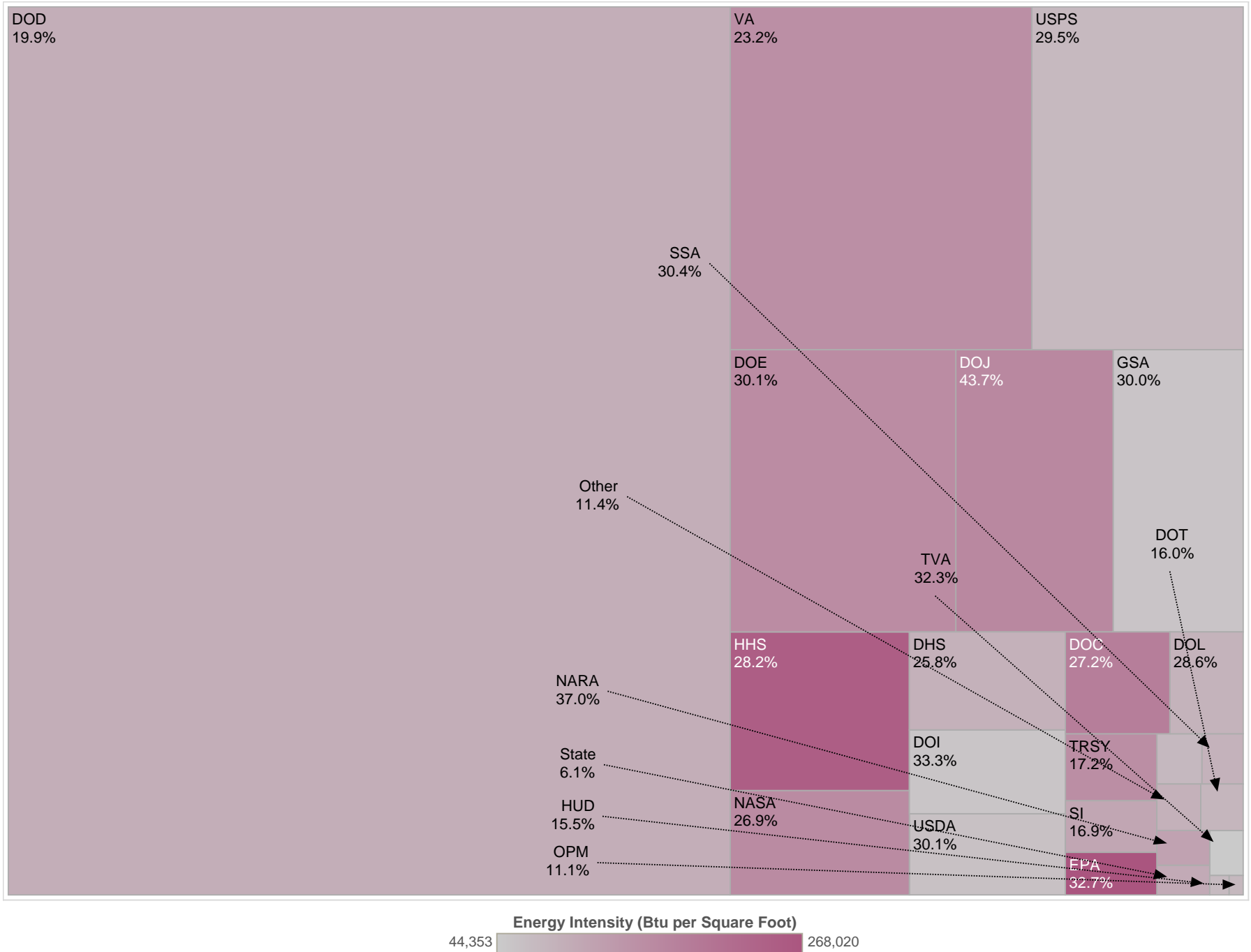
The Long Road of Progress



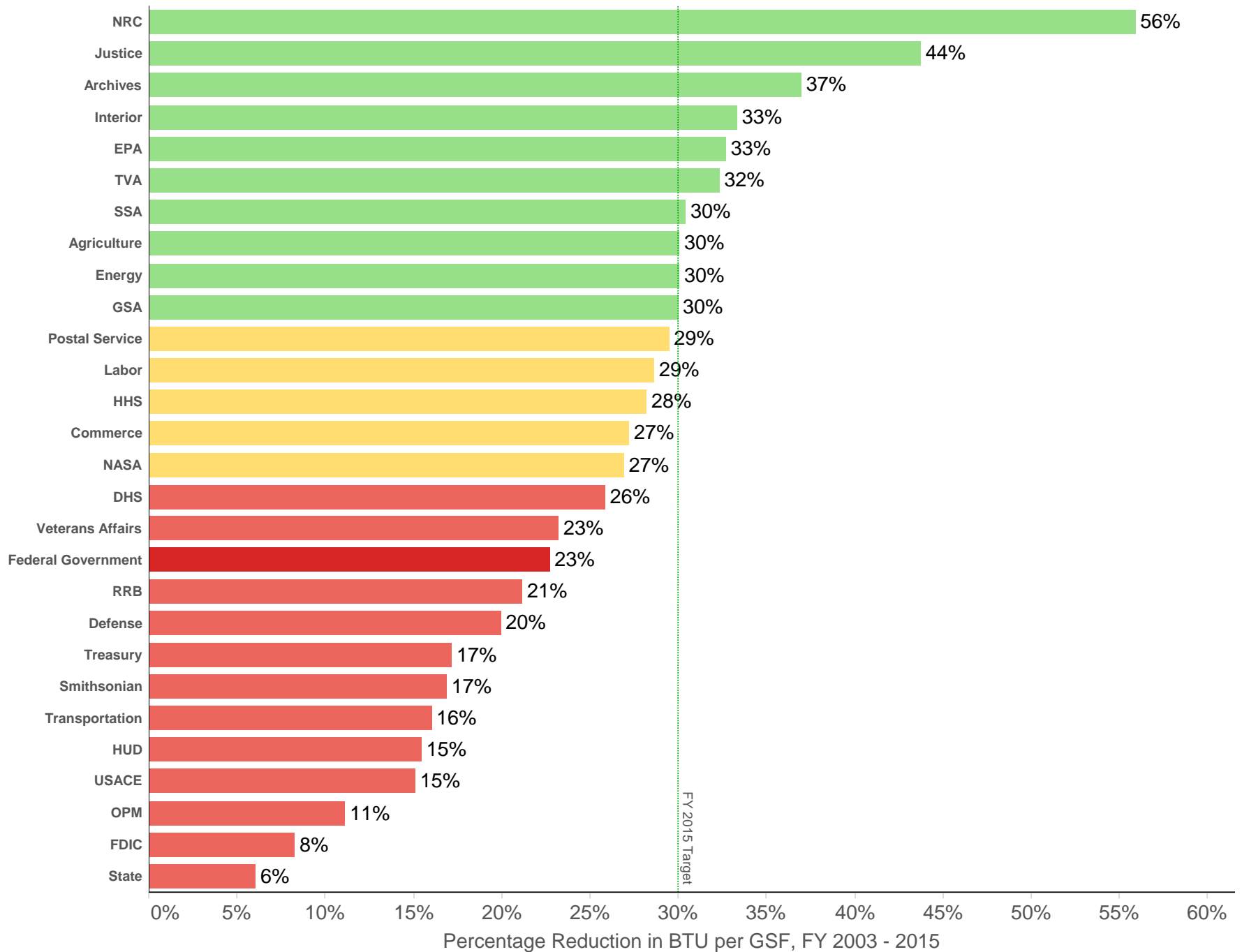
Federal Government Progress Toward Facility Energy Intensity Reduction Goal



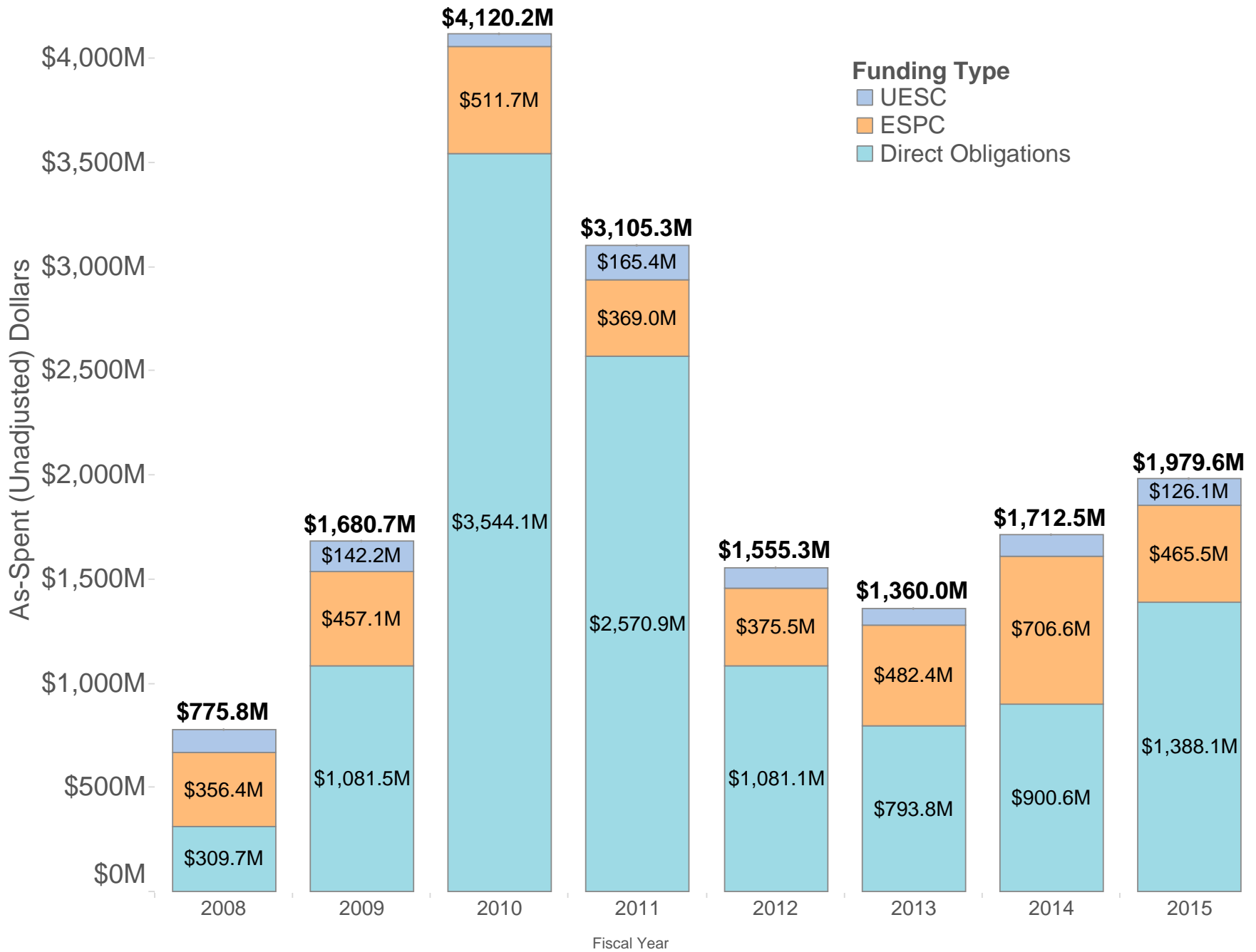
Goal Building Energy Use, Intensity and Reduction Progress 2015 vs 2003



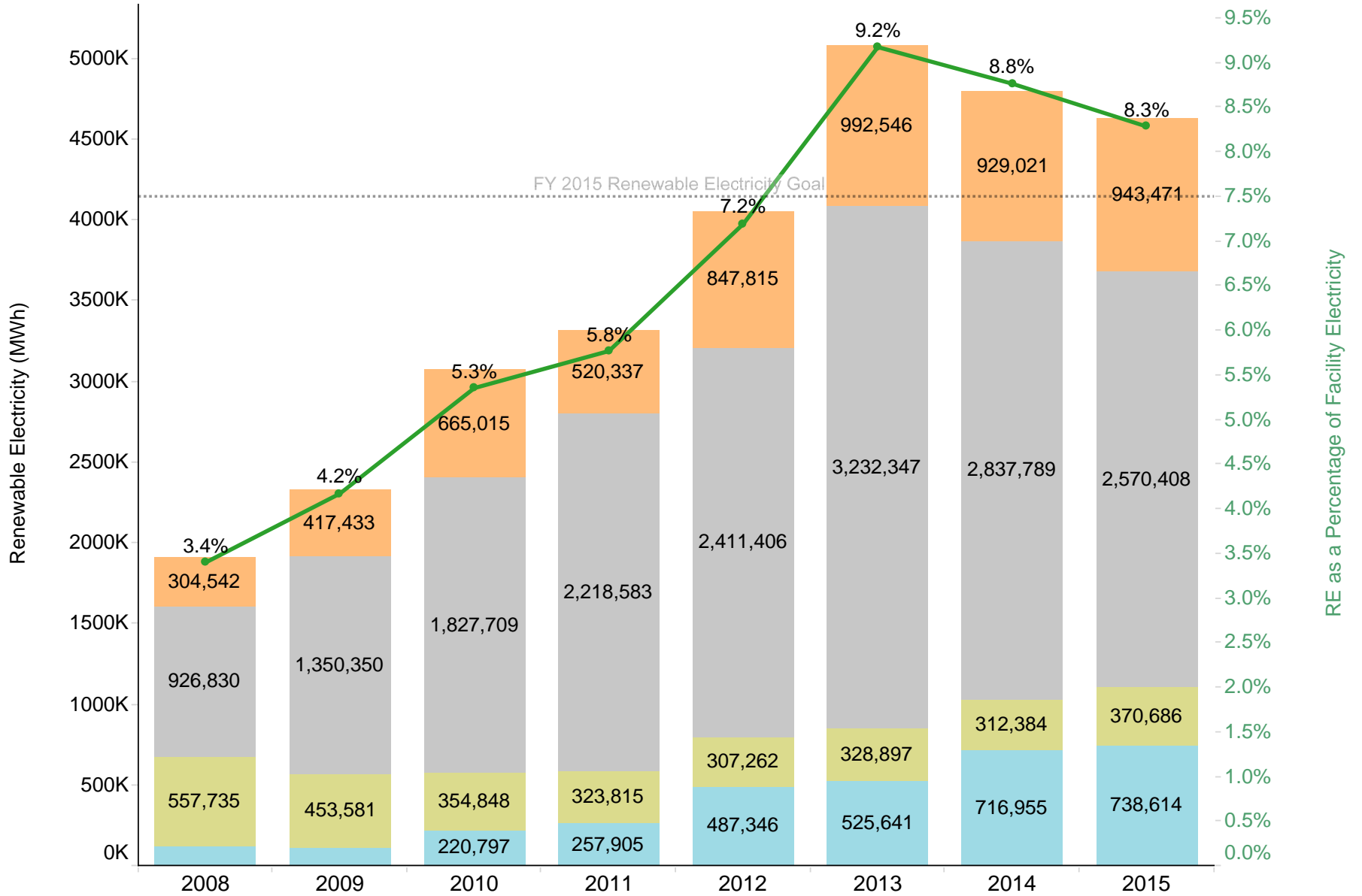
Federal Facilities: FY 2015 Agency Progress Toward Energy Intensity Reduction Goal



Federal Government Awarded Investment for Facility Efficiency (\$Million)



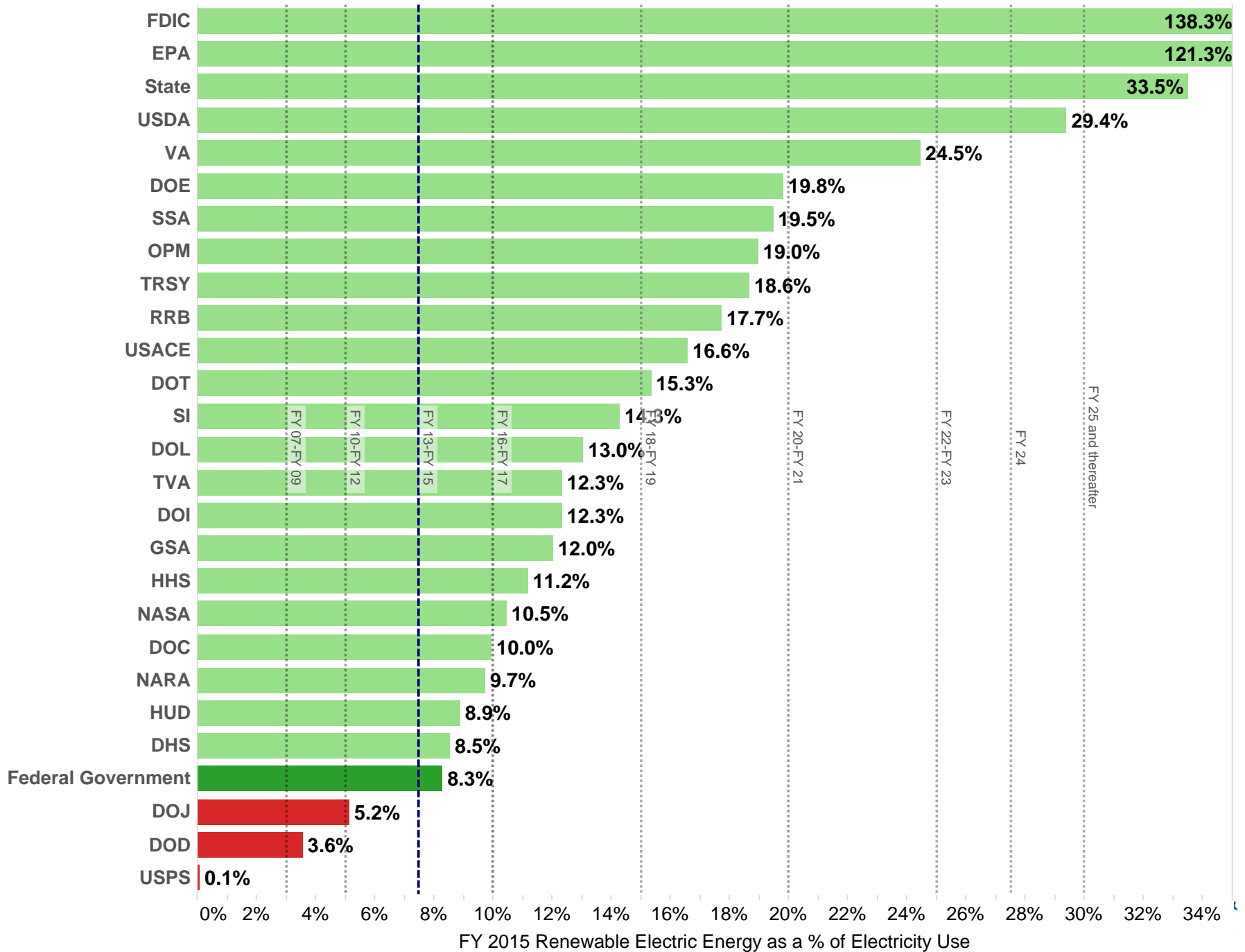
Federal Government Renewable Electricity Use



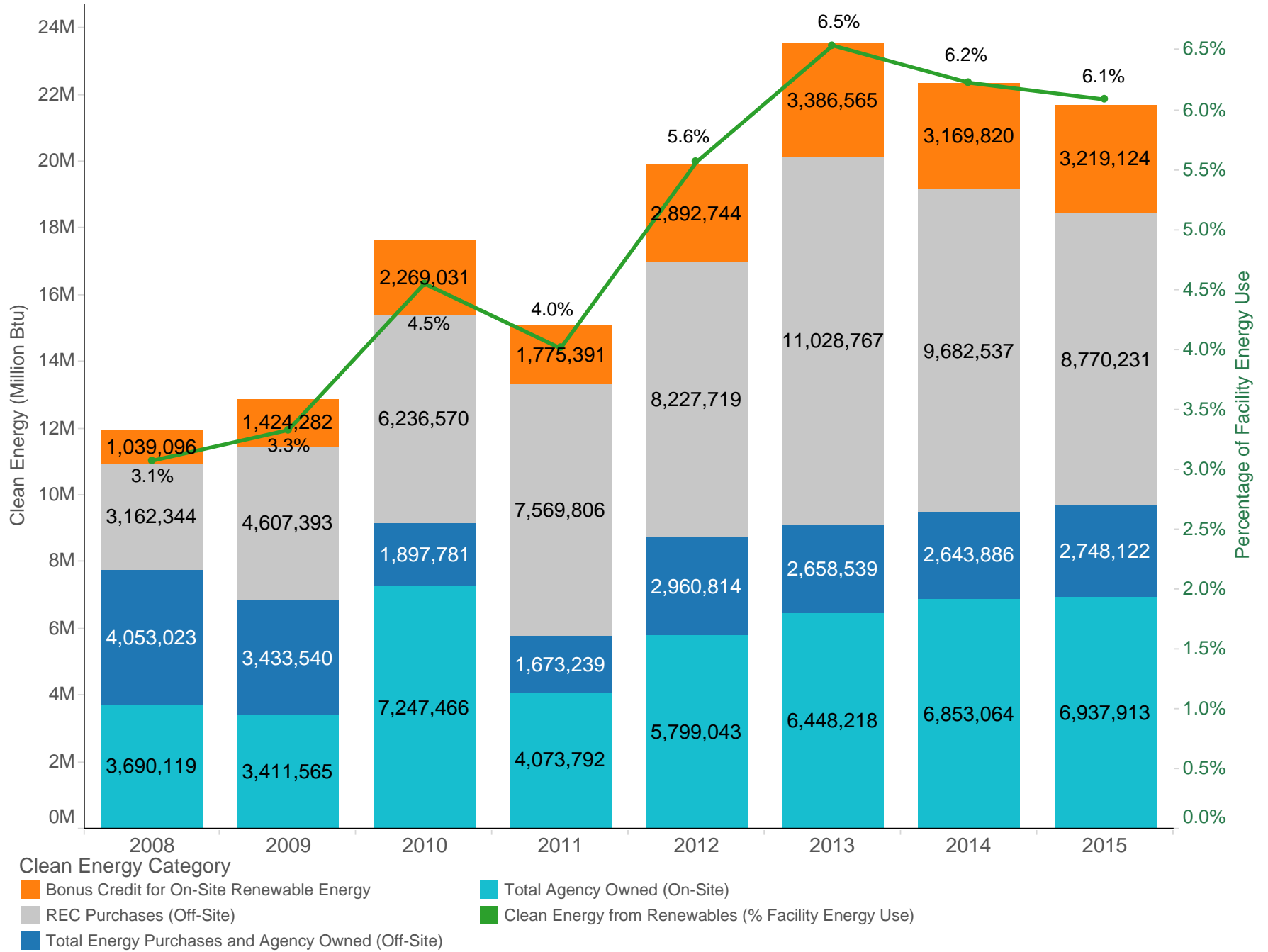
Renewable Energy Category

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

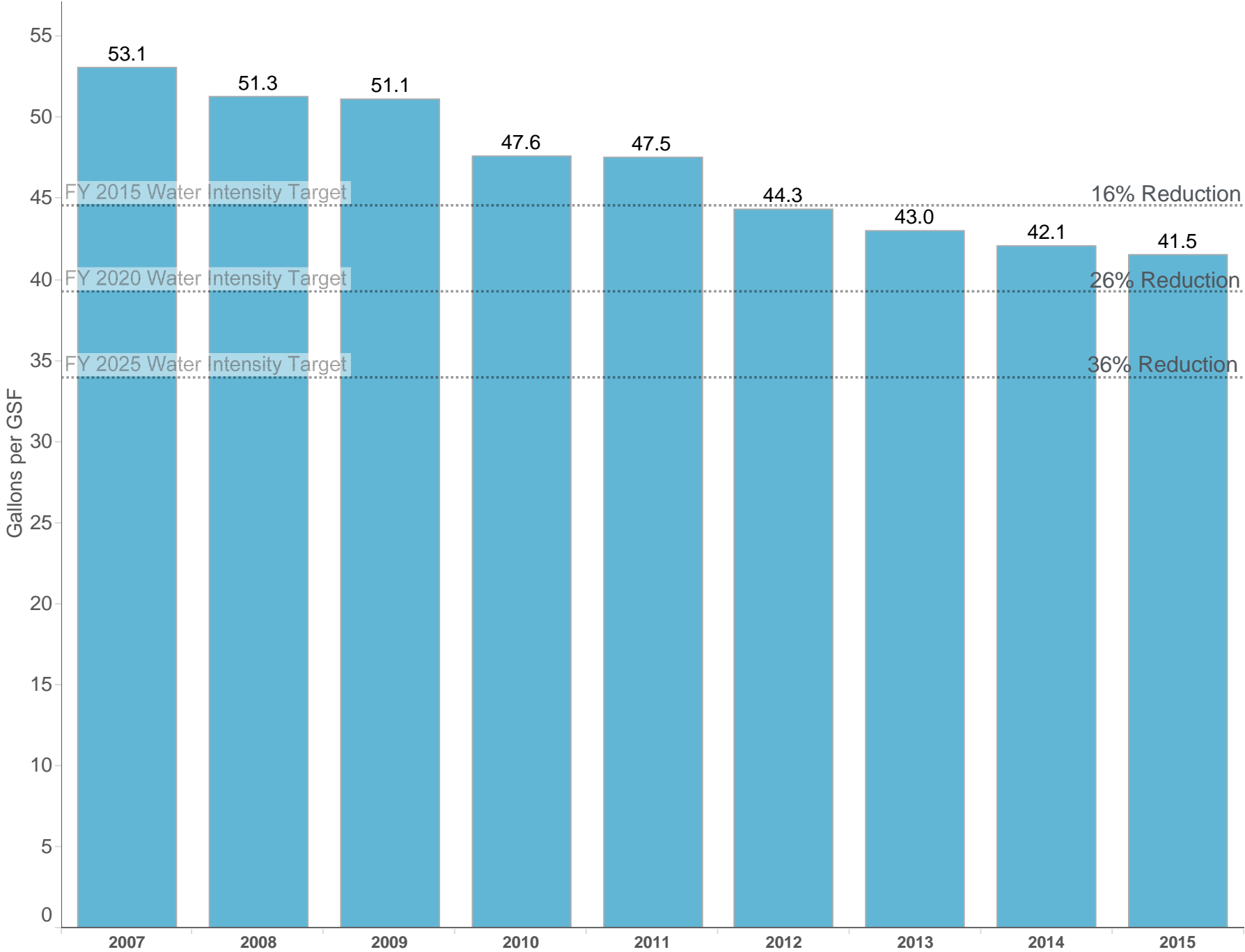
Federal Agency Progress Toward Renewable Electricity Target



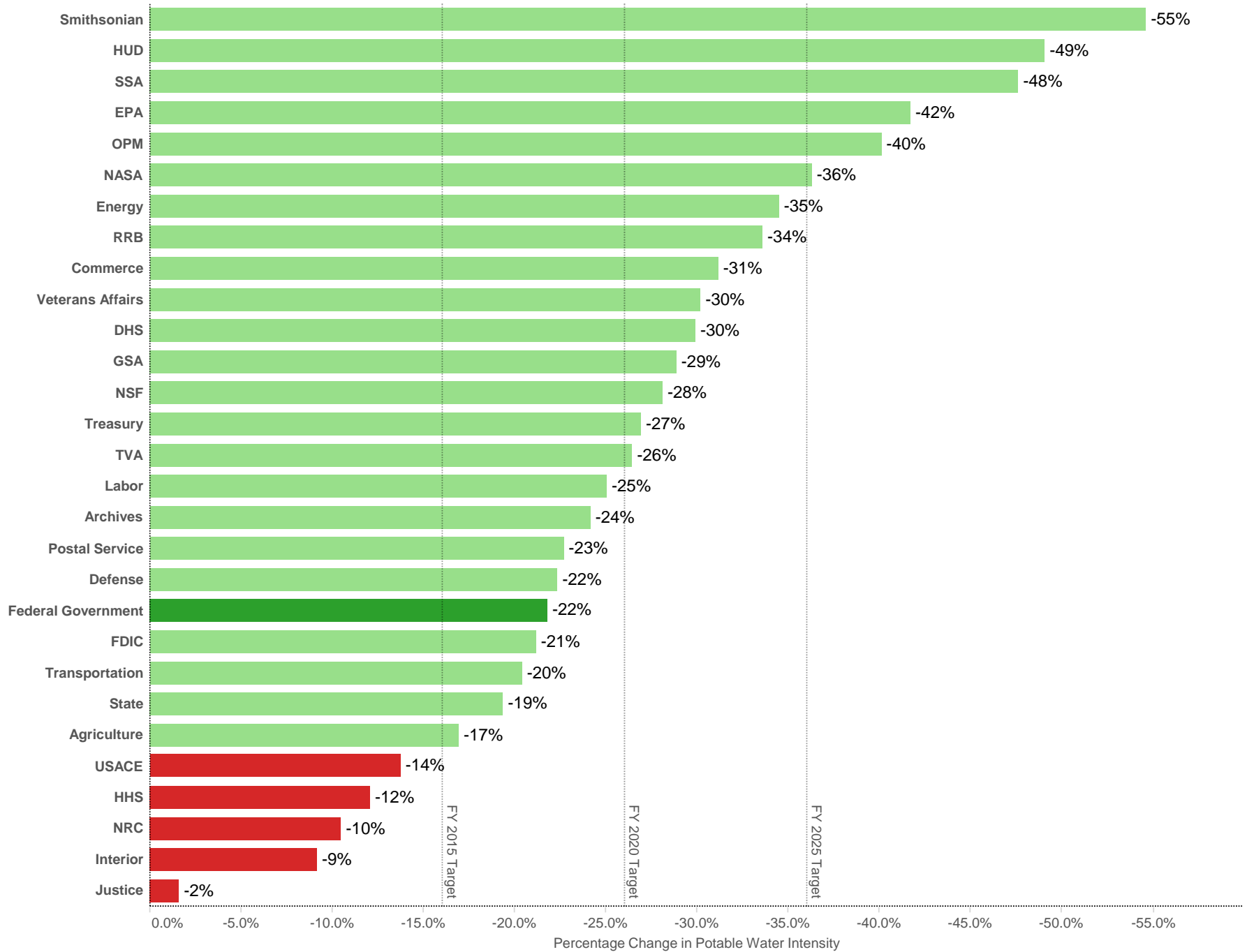
Federal Government Clean Energy Use as a Percentage of Federal Facility Energy Consumption



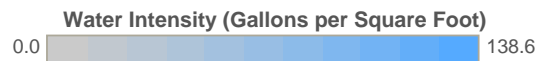
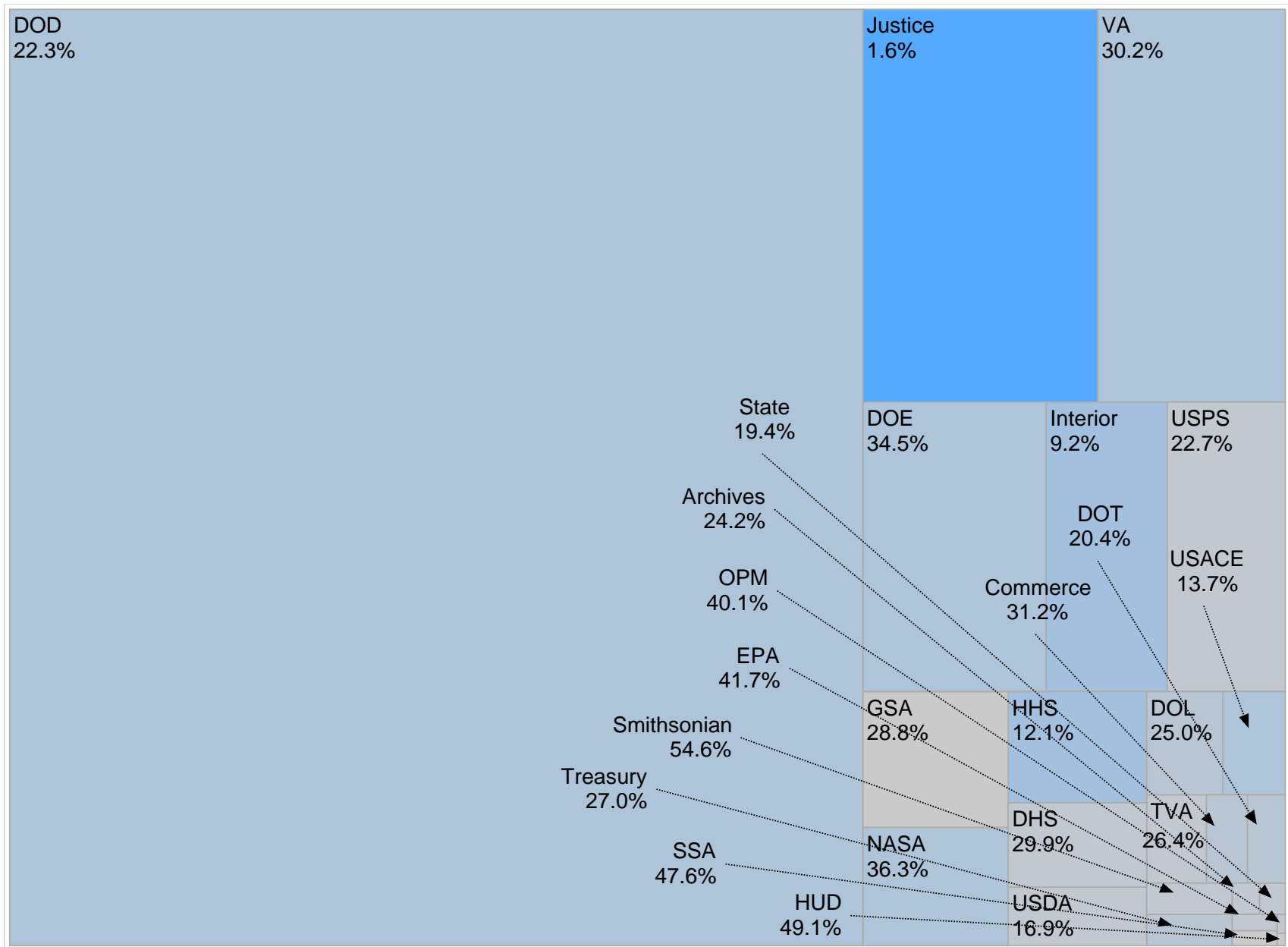
Federal Government Potable Water Intensity FY 2007 to FY 2015 (gallons per GSF)



Federal Agency Progress in Potable Water Intensity FY 2007 to FY 2015



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



Federal Government Industrial, Landscaping and Agricultural (ILA) Water Consumption and Reductions from 2010

