

Federal Sustainability:

Energy, Transportation, and Environmental Management



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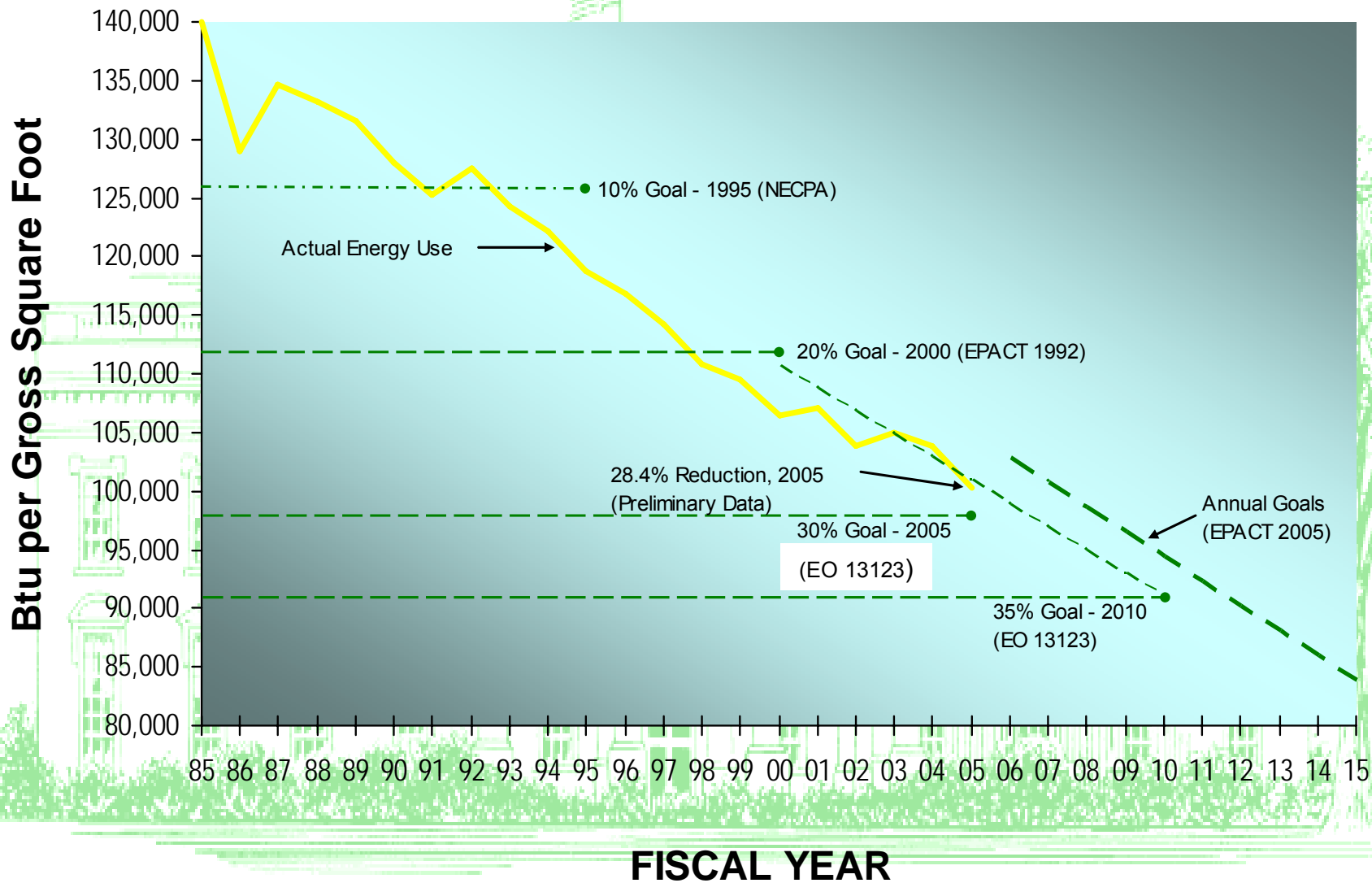
March 2006

Agenda

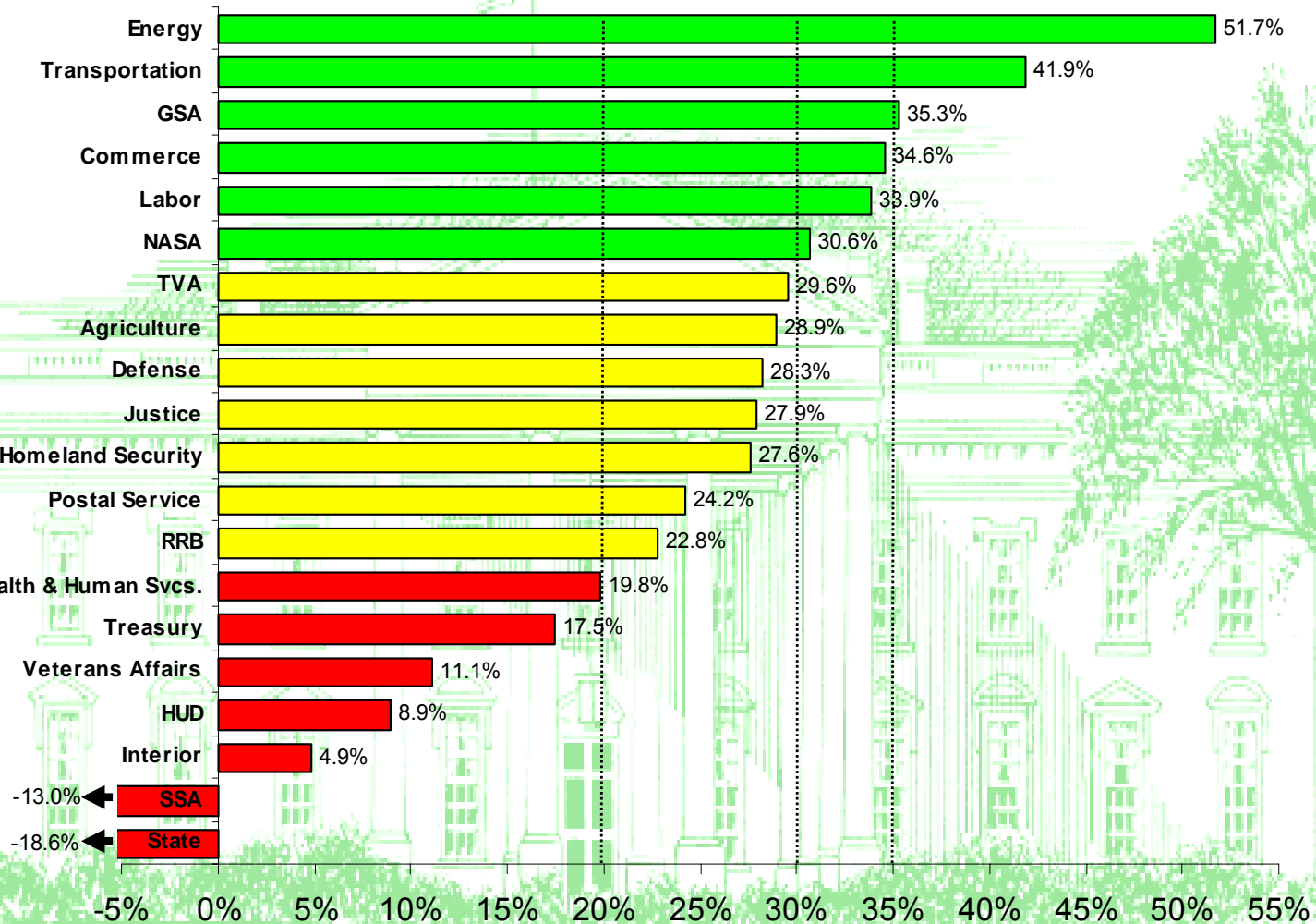
Federal Performance

- Where we are
- Managing for Results
- Scorecard Requirements
 - Energy Management
 - Transportation Management
 - Environmental Stewardship

Federal Energy Reductions

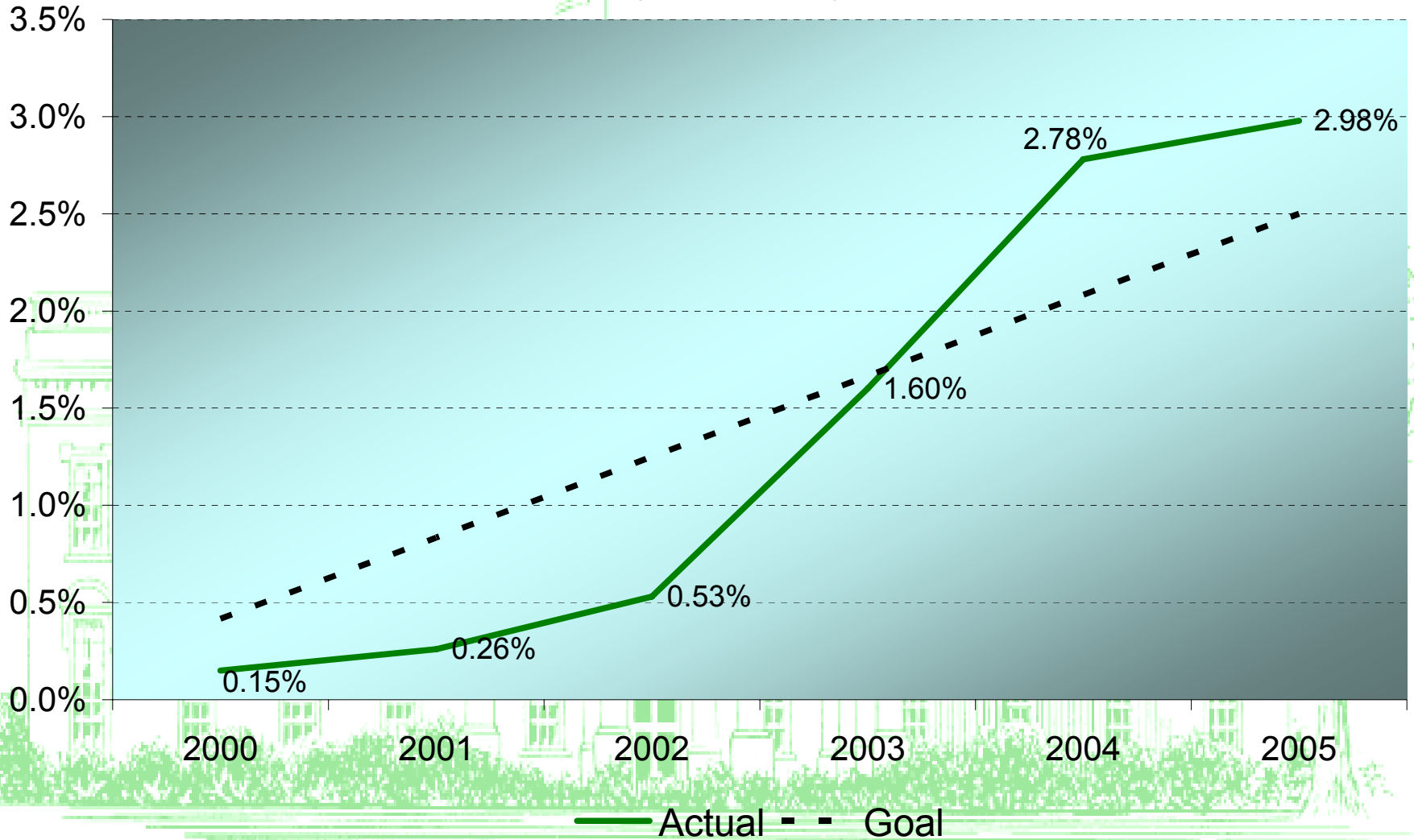


Federal Energy Reductions by Agency

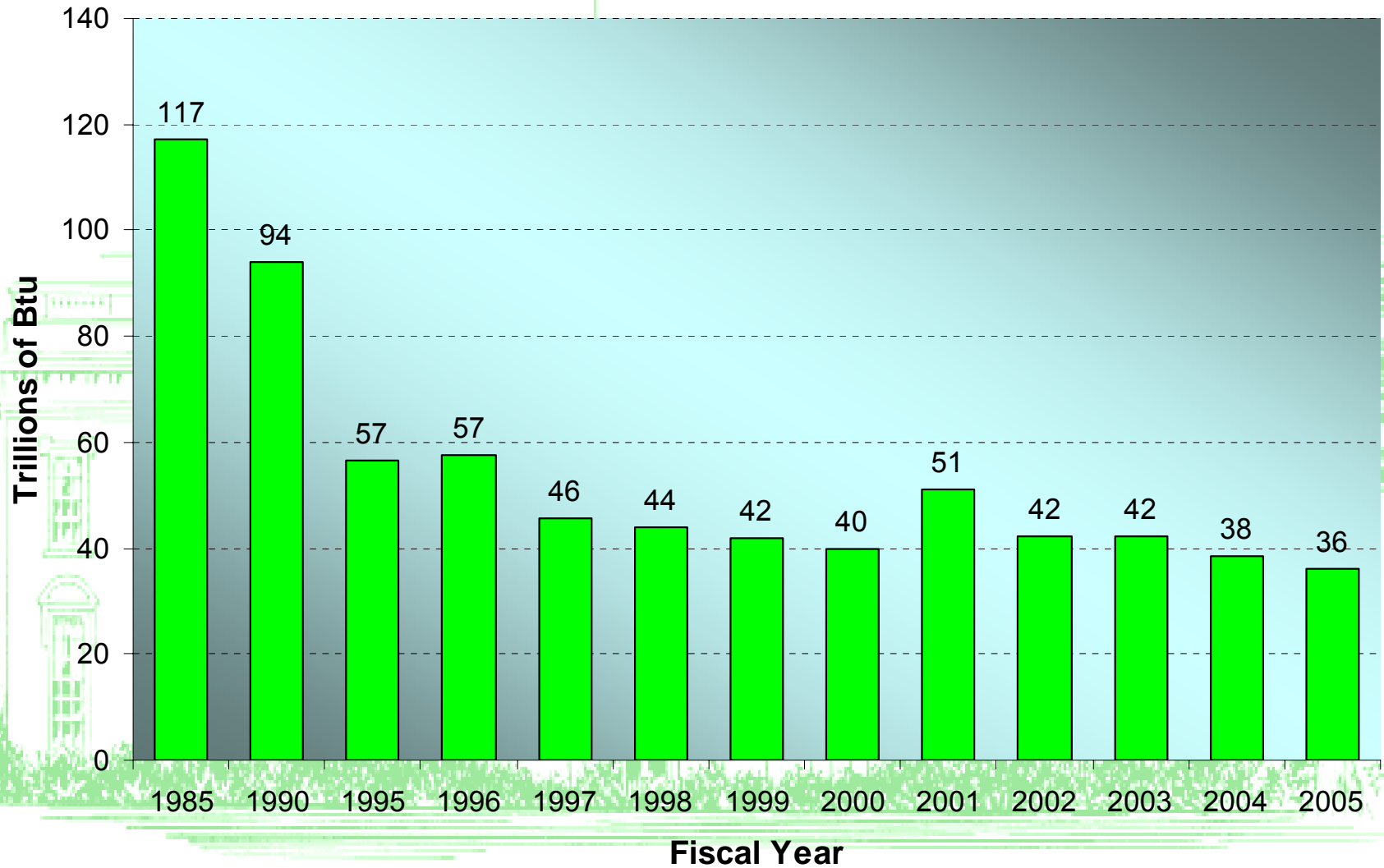


FY 2005 Btu/Square Foot Reduction from FY 1985

Renewable Energy Use as a Percentage of Facility Electricity Use



Petroleum Use Reduction in Buildings



Managing for Results



Achieving results requires:

- ✓ A clear definition of success for every program and activity;
- ✓ A clear action plan for achieving success;
- ✓ A system of accountability to ensure programs perform as promised.

Management Scorecards



Explanation of Status Scores

GREEN—meets all Standards for Success

YELLOW—achieved intermediate levels of performance in all the criteria

RED—has any one of a number of serious flaws

Explanation of Progress Scores

GREEN—Implementation is proceeding according to agreed upon plans

YELLOW—Slippage in implementation schedule, quality of deliverables, or other issues requiring adjustment in order to achieve scheduled goals

RED—Initiative is in serious jeopardy. Unlikely to realize objectives absent significant management attention and intervention.

Scorecard Metrics



- Three Scorecards
- Each have 5-6 metrics (EO/statute/MOU)
- Existing reporting requirements
- Updates January/July
- Focus is on Progress/Results
- Make agencies more accountable

Major Goals

Executive Order 13123

- Reduce energy consumption per ft²
 - 30 percent in 2005 and 35 percent in 2010 relative to 1985 (standard buildings)
 - 20 percent in 2005 and 25 percent in 2010 relative to 1990 (industrial and laboratory)
- Reduce petroleum use in facilities
- Increase use of renewable energy

New Requirements

2005 Energy Policy Act

- Reduce energy consumption per ft²
 - 2% per year 2006-2015 relative to 2003 (all buildings)
- Increase use of renewable energy
 - 3% (2007), 5% (2010), 7.5% (2013)
- New buildings 30% more efficient than ASHRAE or IECC standards
- Electric metering in all buildings by 2012
- Mandatory procurement of EnergyStar[®] and FEMP-recommended products

Major Goals of Executive Order 13149 and EPACT

- 75% of new vehicle acquisitions must be alternative fuel vehicles (AFVs) (EPACT'92)
- 51% use of alternative fuels in AFVs (E.O. 13149)
- 100% use of alternative fuels in AFVs (EPACT'05)
- 3 mpg increase by 2005 compared with 1999 (EO 13149)
- 20 percent reduction in petroleum use in fleets by 2005 compared with 1999 (EO 13149)

AFV Acquisitions

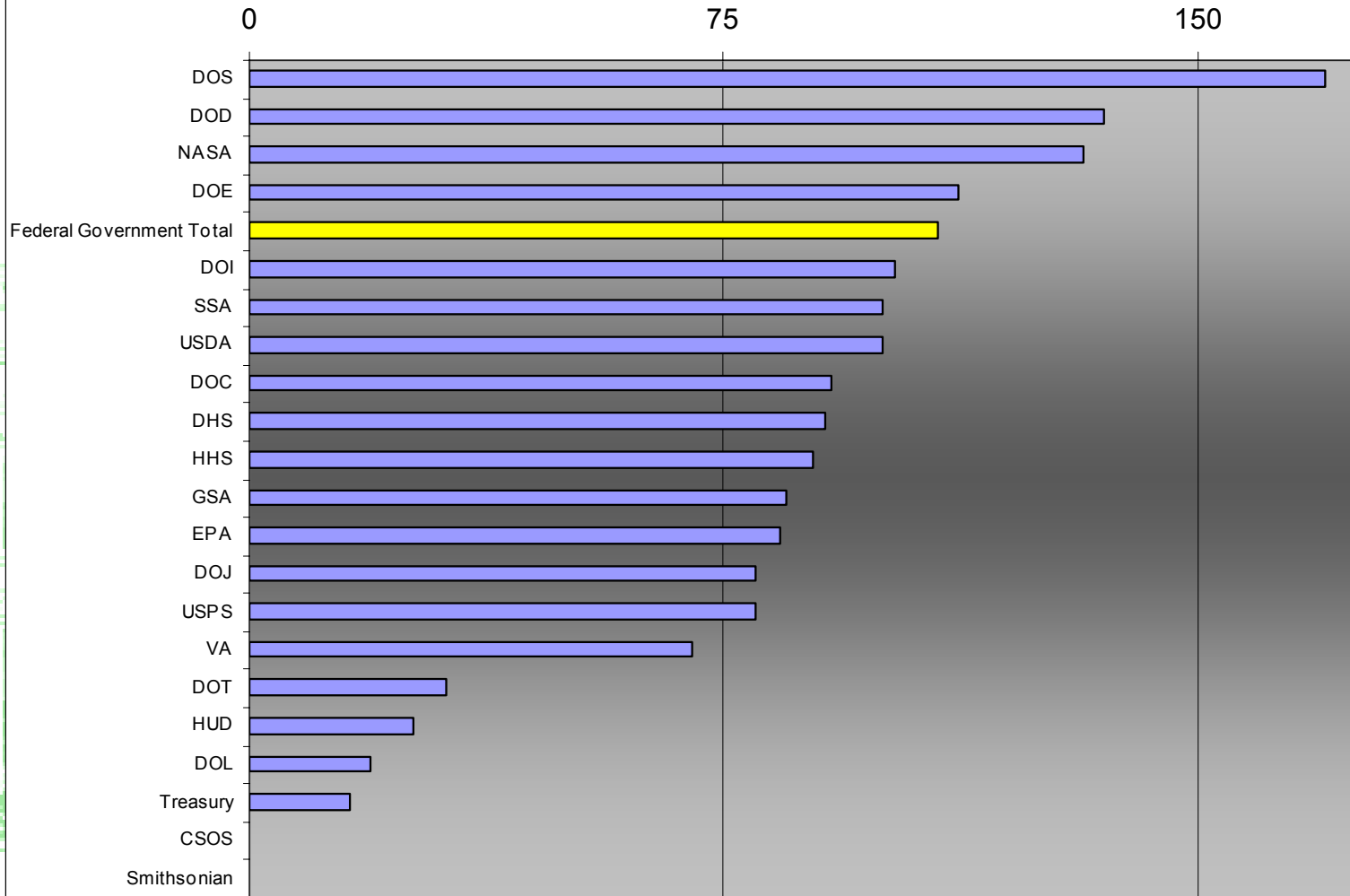
Fiscal Year	AFVs Acquired	Total EPA Act Credits**	Percent of Acquisition	Total AFV Inventory
2000	7,922	9,188	44%	55,260
2001	8,798	9,736	45%	58,242
2002	9,387	10,870	60%	65,687
2003	20,387	22,848	86%	80,852
2004	14,811	17,672	95%	85,119
2005*	16,947	20,275	109%	95,068

*Preliminary data; source: FAST database

**Includes additional credits for biodiesel use and dedicated AFVs (light duty, medium duty, and heavy duty trucks)

AFV Acquisitions by Agency

FY 2005



Using Alternative Fuel

- Agencies used 6.3 million gasoline gallon equivalents in 2005 (+41% vs. 2004)
- Alternative fuel use increased each year since 2000
- Despite increases, no agency reached 51 percent goal (EO 13149)
- Some data suspect – agencies need to improve data quality

Improving Fuel Economy

- **10 out of 17 agencies** met the goal of a 3 mpg improvement in 2005 vs. 1999
- **16 of 17 agencies** have increased the fuel economy of their acquisitions over 1999

Reducing Petroleum Use in vehicles

- 15 of 19 agencies have reduced petroleum use compared with 1999
- None of the agencies approach the 20 percent reduction goal required to be met by 2005

Major Goals of Executive Orders 13101, 13148 and MOUs

- Submit EMS protocol for all facilities/meet EO requirements (EO 13148)
- Require acquisition of green products (EO 13101/multiple statutes)
- Institute sustainability program for green buildings (MOU)
- Promote electronic stewardship (MOU)

Green Procurement

***APP(recycled) 17 agencies**

****GPP (APP+) 8 agencies**

No APP 4 agencies

*Affirmative Procurement Program (APP) covers recycled content products

**Green Procurement Plan (GPP) includes recycled plus at least one other green product preference.

GPPs should preference:

- Recycled Content (RCRA/EO13101)
- Energy Star/Efficient (EPACT'05/EO13123)
- Biobased (FSRIA/EO13101)
- Alternative Fuels (EPACT'92 &'05/EO13149)
- Non-Ozone Depleting Substances (CAA/EO13148)
- Environmental Preferable (EO13101)
- Priority Chemicals (EO13148)

Guiding Principles for MOU on Sustainable Green Buildings

- Employ Integrated Design Principles
- Optimize Energy Performance
- Protect and Conserve Water
 - ↓20% indoor ↓50% outdoor
- Enhance Indoor Environmental Quality
- Reduce Impact of Materials
- 18 agencies on board

CONCLUDING REMARKS



- Agencies want to make progress
- Scorecard will promote faster progress and better use of tools (ESPC/UESC, LEED, metering, performance metrics, evaluations, EE product acquisitions, etc.)
- OMB, OFEE, DOE & EPA ready to assist
- Already seeing an impact