



EXECUTIVE ORDER 13514: Implementation Status Update

Josh Silverman
Office of Environmental Policy & Assistance (HS-22)

Clean Air Work Group
February 25, 2010



Executive Order 13514 (October 5, 2009)



“To establish an integrated strategy towards sustainability in the Federal Government and make reduction of greenhouse gas (GHG) emissions a priority for agencies.”



E.O. 13514: Four Key Aspects



1. GHG emission reduction is now an overarching, integrating performance metric for all Federal agencies;
2. Agencies must use a deliberative planning process, including a Strategic Sustainability Performance (SSP) Plan (due June 2, 2010);
3. E.O. goals are to be linked to budget allocations and scored by OMB; and
4. E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* (January 29, 2007) remains in effect.



Senior Sustainability Officer: Deputy Secretary



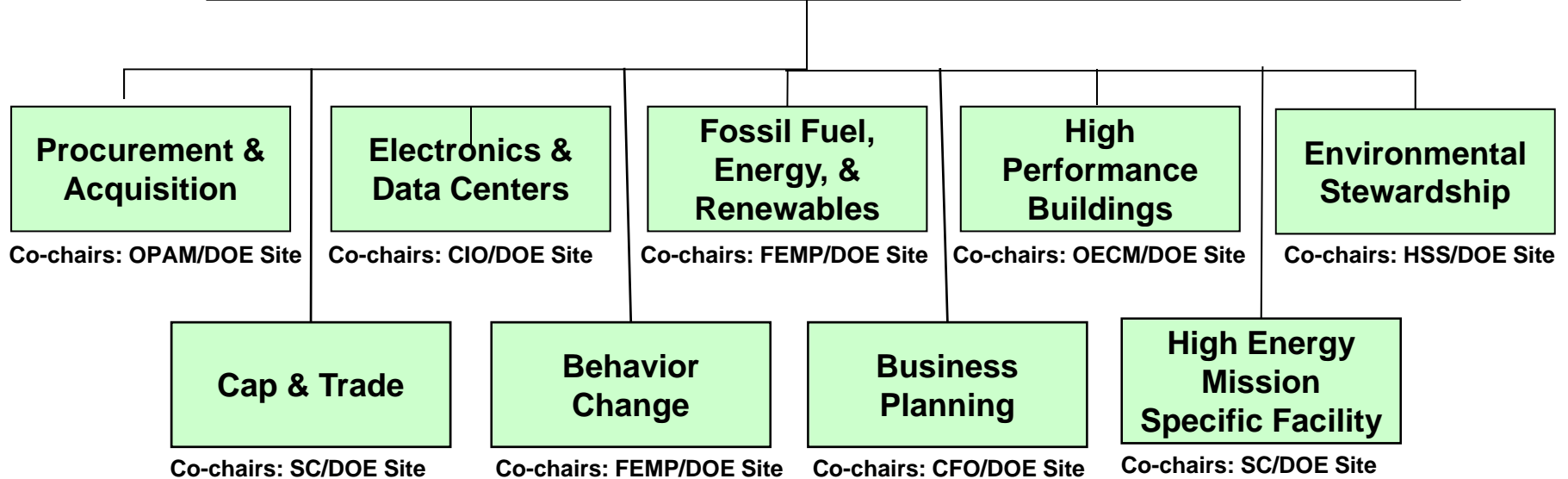
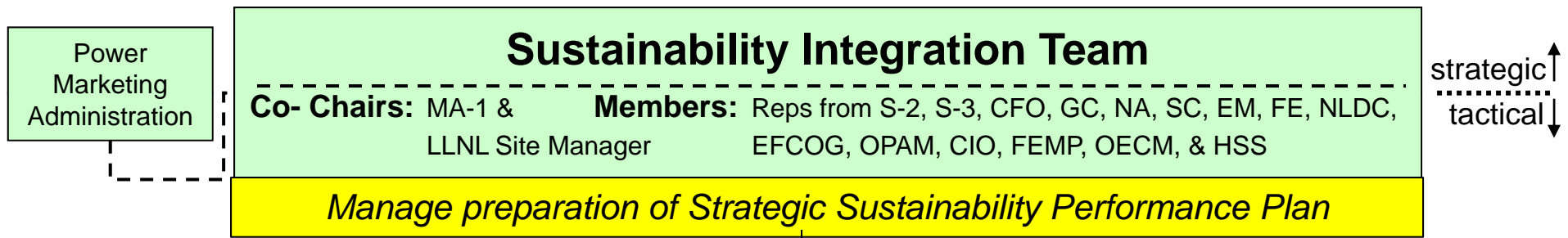
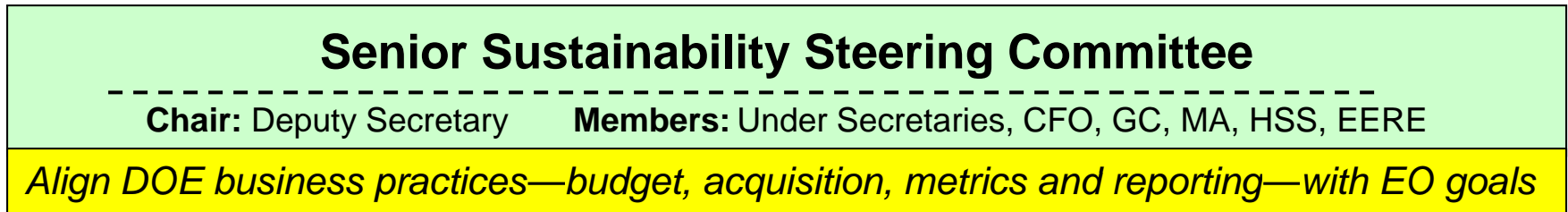
Secretary Chu has named Deputy Secretary Daniel Poneman as DOE's Senior Sustainability Officer (SSO)

- Staffing support to come from Ingrid Kolb, Director of Management (MA-1)

SSO Responsibilities include:

- Prepare the DOE-wide GHG inventory
- Develop DOE targets for GHG emissions reductions
- Prepare and implement the SSP Plan, in coordination with appropriate offices and organizations
- Monitor DOE's performance and progress in implementing the Plan and report to CEQ and OMB.

E.O. 13514 Governance Model



High Performance Buildings

Co-chairs: OECM/DOE Site

Business Planning

Co-chairs: CFO/DOE Site

Environmental Stewardship

Co-chairs: HSS/DOE Site

High Energy Mission Specific Facility

Co-chairs: SC/DOE Site



DEPARTMENT OF ENERGY

**Senior Sustainability Officer
Deputy Secretary**

**Secretary
Departmental Chief, Secretary**
Daniel B. Poneman,
Deputy Secretary*

Chief of Staff

Departmental Staff
and Support Offices

3 Under Secretaries:

Nuclear Security

Energy

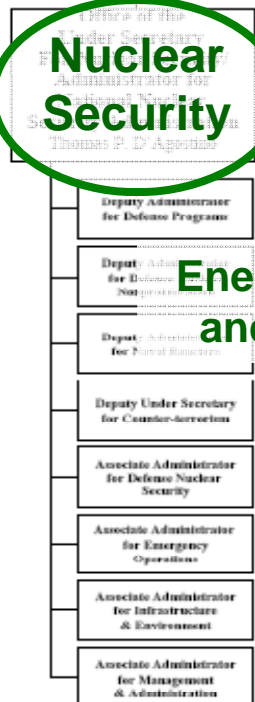
Science

General Council

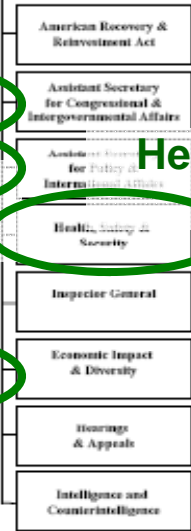
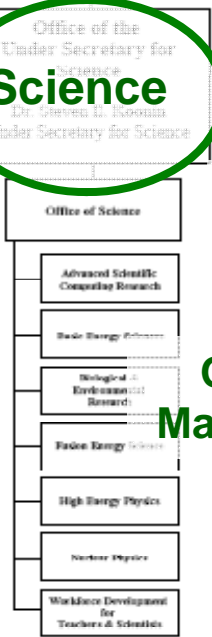
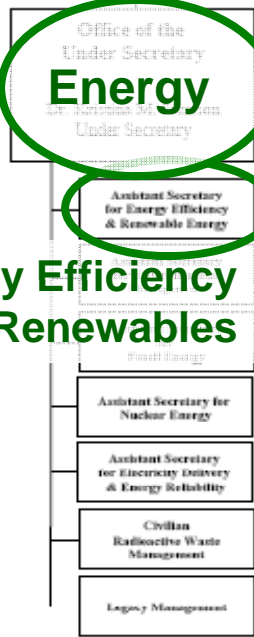
Chief Financial Officer

Office of Management

Health, Safety & Security



Energy Efficiency and Renewables



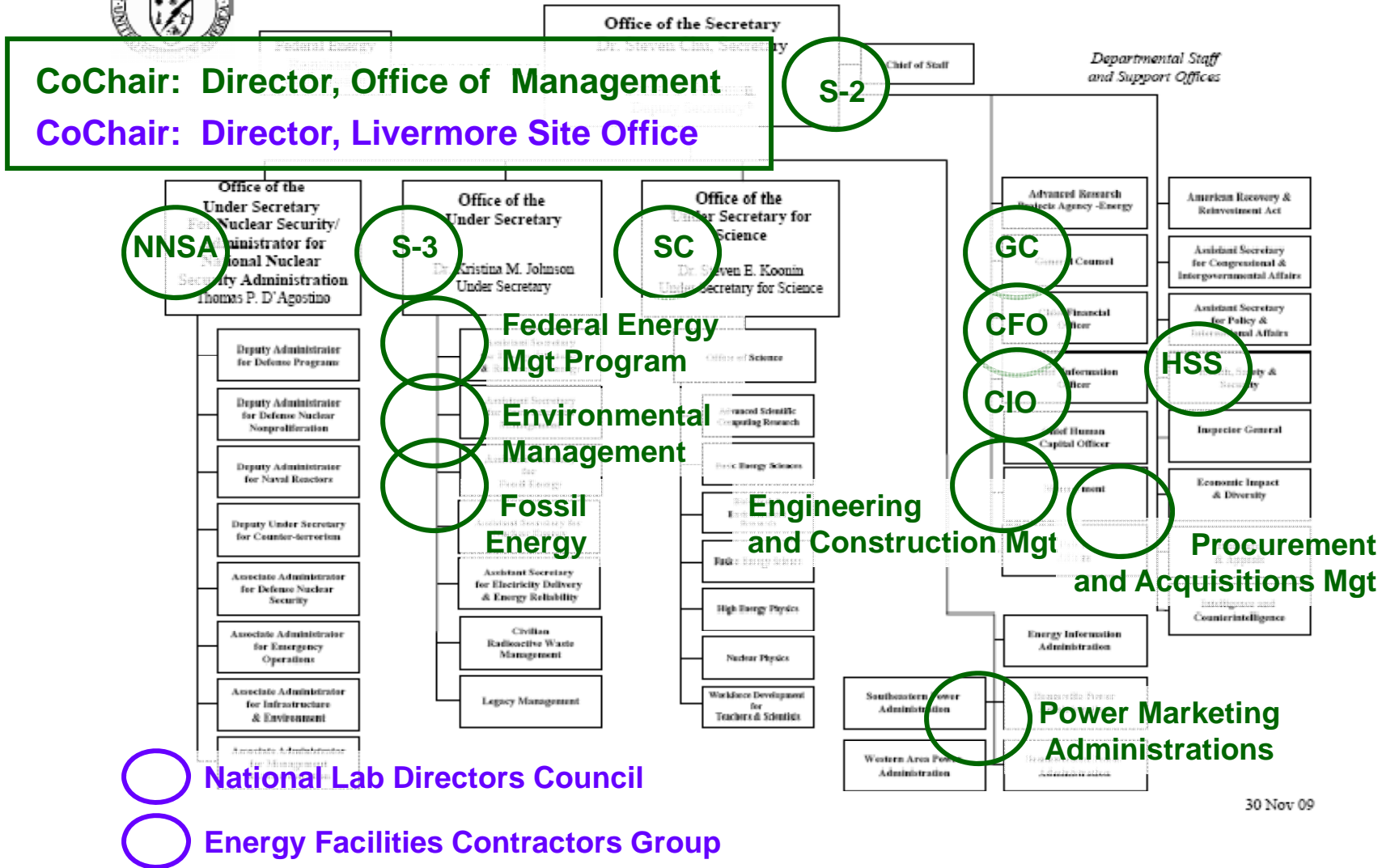
* The Deputy Secretary also serves as the Chief Operating Officer

DOE's Senior Sustainability Steering Committee

Align DOE business practices – budget, acquisition, metrics and reporting – with EO goals



DEPARTMENT OF ENERGY



30 Nov 09

DOE's Sustainability Integration Team
Manage preparation of Strategic Sustainability Performance Plan



Sustainability Management Principles



DOE's Senior Sustainability Steering Committee has adopted the following four principles:

- ✓ Drive personal and organizational **behavior change** across the complex as a fundamental strategy to reduce energy use at minimal cost
- ✓ Employ a corporate-wide **portfolio approach** to share energy and greenhouse gas reduction responsibilities
- ✓ Safeguard mission, yet revisit and challenge previously excluded facilities and processes. **Everything is on the table**
- ✓ Showcase R&D **demonstration projects** at DOE Sites (Highlight technological leadership while meeting goals of E.O.)



Strategic Sustainability Performance Plan



- Establishes DOE actions to achieve the goals and targets of the E.O., including the GHG reduction targets;
- Is to be integrated into DOE's strategic planning and budget process;
- Identifies DOE activities, policies, plans, procedures and practices that are relevant to E.O. implementation;
- Identifies specific DOE goals, milestones, and quantifiable metrics for E.O. implementation.;
- Considers environmental measures as well as economic and social benefits and costs in evaluating projects and activities based on lifecycle return on investment;
- Includes annual reviews and continuous improvement.

Key Milestones Accomplished

- January 5 – Formal Designation of Senior Sustainability Officer (SSO)
- January 6 – Established Agency-wide Target for Scope 1 and 2 Greenhouse Gases (28% reduction)
- January 15 – Implemented Governance Model to Ensure Headquarters and Field Partnership & Prepared Master Schedule of Critical Milestones
- January 21 – Stood-up Sustainability Integration Team (SIT)



Date to Remember: June 2, 2010 – Strategic Sustainability Performance Plan (SSPP) and Scope 3 Target Due to OMB

Critical Milestones Ahead

Task Description	Target
Complete technical analysis of Executable Plans	2/1/2010
Identify missing critical data and issue data-call	2/15/2010
Complete financial analysis and rank projects identified in site Executable Plans	3/1/2010
Provide sustainability cost data for FY12-16 budget to the Programs	3/20/2010
Complete analysis of DOE's ability to meet GHG and non-GHG targets	4/1/2010
Verify sustainability funding incorporated into Program Budgets for FY12-16	4/7/2010
Select and approve Scope 3 Greenhouse Gas (GHG) reduction target	4/10/2010
Distribute draft SSPP for internal DOE review	4/15/2010
Conduct Senior Sustainability Steering Committee (SSSC) meeting to review and comment on the SSPP – review impact to budget	5/1/2010
Submit Scope 3 GHG reduction target to OMB/CEQ	6/2/2010
Submit SSPP in concert with FY12 budget submission to OMB/CEQ	6/2/2010

Supporting Information

E.O. 13514 – Requirements & DOE Status

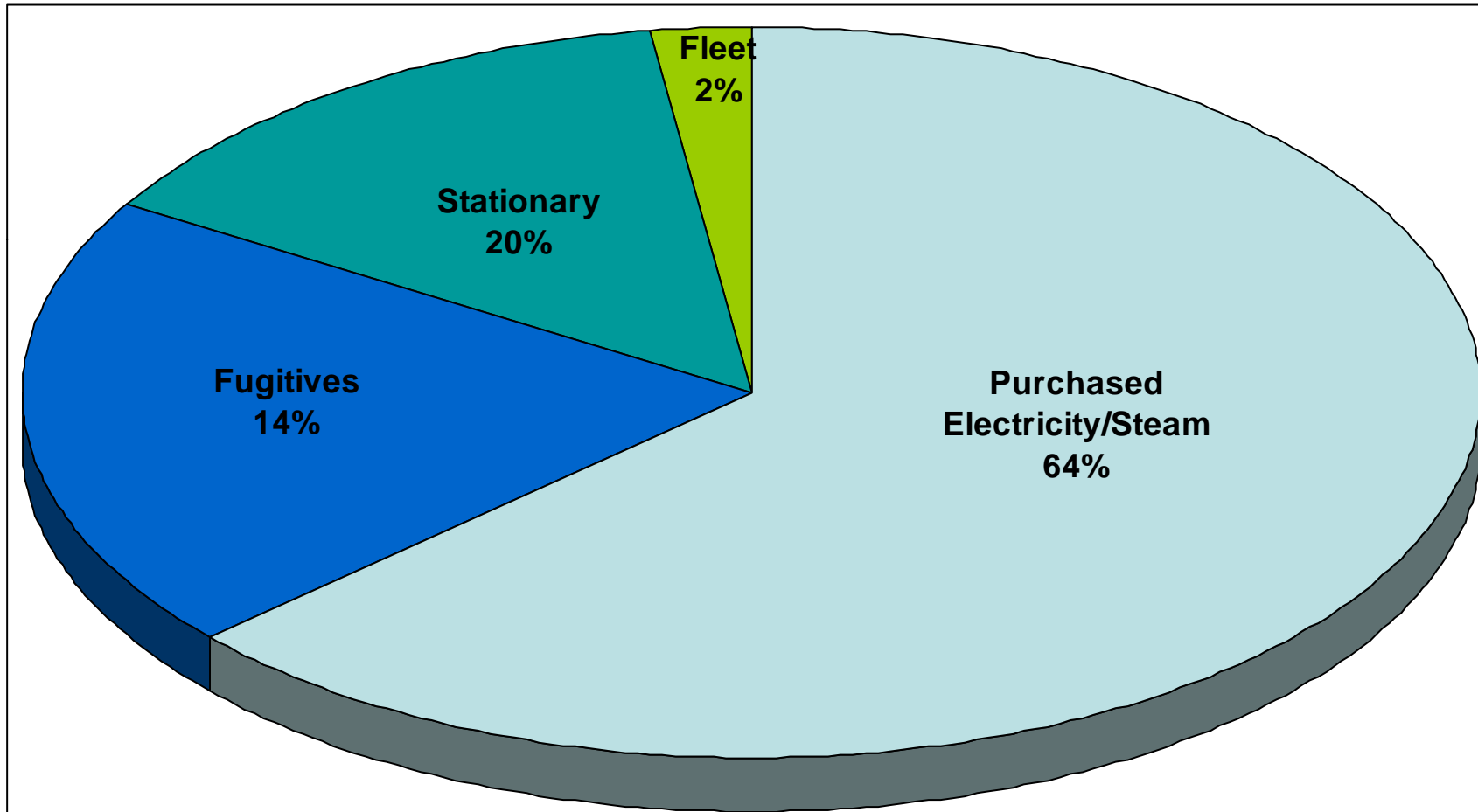
	Requirement	FY 09 Status
Scope 1&2 Greenhouse Gas (GHG) emission reduction from 2008 to 2020	28%	new
• Energy Intensity reduction (Btu/ft ²)	30% (2003-2015)	17.2%
• Renewable electricity use	7.5% (2013)	4.2%
• Fleet petroleum reduction	30% (2005-2020)	16.3%
Other sustainability goals:		
• Select scope 3 GHG reduction target	June 2, 2010	new
• Potable water intensity reduction (gal/ft ²)	26% (2007-2020)	2.6%
• Industrial/other water consumption reduction	20% (2010-2020)	new
• Recycling & waste diversion	50% (by 2015)	49%
• Sustainable Procurement	95%	new
• Buildings meet sustainability principles	15% (by 2015)	1.6%
• Net-zero energy in new facilities	100% (by 2030)	new

DOE Scope 1 and 2 GHGs

- DOE calculated an FY08 baseline of 4.1 million metric tons of carbon dioxide equivalent (MMTCO₂e)
- DOE established a 2020 Reduction Target of 28%
 - Reductions to be achieved on absolute basis, regardless of budget or mission change

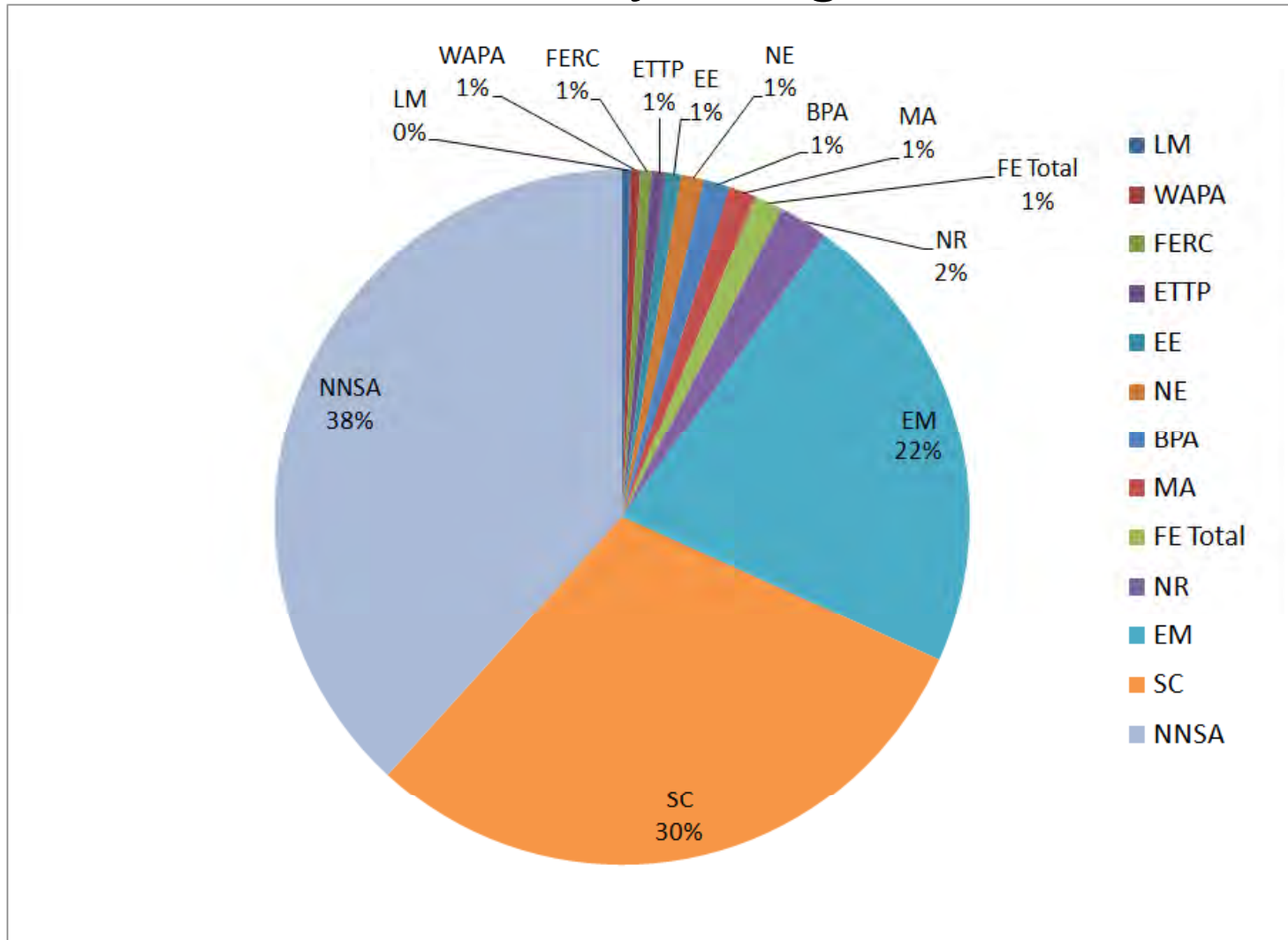


DOE Scope 1 and 2 Emissions (4.1 MMTCO₂e)



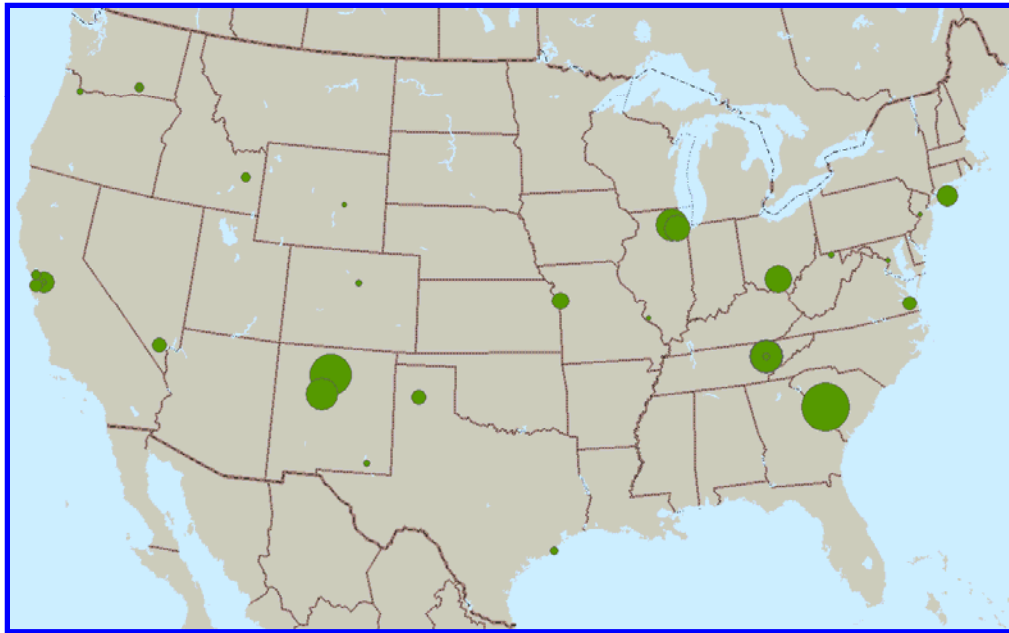
DOE GHG Emission Profile

GHG by Program



DOE GHG Emission Profile

Top Ten Scope 1 and 2 GHG Emitting Sites in FY 2008



Program	Site	State	FY08 GHG (MtCO ₂ e)
EM	SRS	SC	515,779
NNSA	LANL	NM	410,896
NNSA	Y-12	TN	272,560
NNSA	SNL-NM	NM	266,087
Science	ORNL	TN	258,597
Science	Fermi	IL	252,791
EM	PORTS	OH	203,260
Science	ANL	IL	183,510
NNSA	LLNL	CA	123,506
Science	BNL	NY	123,273