

OVERVIEW
OF
EXECUTIVE ORDER 13514
*Federal Leadership in Environmental,
Energy, and Economic Performance*

10/27/2009

F&I Meeting

President Obama Signing E.O. 13514

On October 5, 2009, President Obama Signed Executive Order 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*.



Executive Order 13514

- Executive Order 13514 establishes numerous goals for Federal agencies.
- E.O. 13514 represents a transformative shift in the way the government operates by:
 - establishing GHGs as the integrating metric for tracking progress in Federal sustainability
 - requiring a deliberative planning process
 - linking to budget allocations and OMB scorecards to ensure goal achievement.
- E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* (1/29/07) is not revoked by the new EO; its requirements remain in effect.

E.O. 13514 Policy

The Federal Government shall lead by example in creating a clean energy economy. Federal agencies shall:

- Increase energy efficiency;
- Measure, report and reduce their GHG emissions;
- Conserve and protect water resources;
- Eliminate waste, recycle, and prevent pollution;
- Leverage agency acquisition to foster markets for sustainable technologies and environmentally preferable materials, products and services;
- Design, construct, maintain, and operate high performance sustainable buildings in sustainable locations;
- Strengthen the vitality and livability of communities in which Federal facilities are located; and
- Inform Federal employees about and involve them in achieving these goals.

Goals of E.O. 13514

1. Reduce GHG emissions*
2. Improve water use efficiency and management*
3. Promote pollution prevention and eliminate waste*
4. Advance regional and local integrated planning
5. Implement high performance sustainable building design, construction, operation and management, maintenance, and deconstruction*
6. Advance sustainable acquisition*
7. Promote electronics stewardship
8. Sustain environmental management systems*

** = linked to facilities and infrastructure*

GHG Emissions

- **SCOPE 1: Direct GHG emissions owned or controlled by Federal agency**

- Stationary External Combustion
- Stationary Internal Combustion
- Fleet Vehicles
- Fugitive Emissions

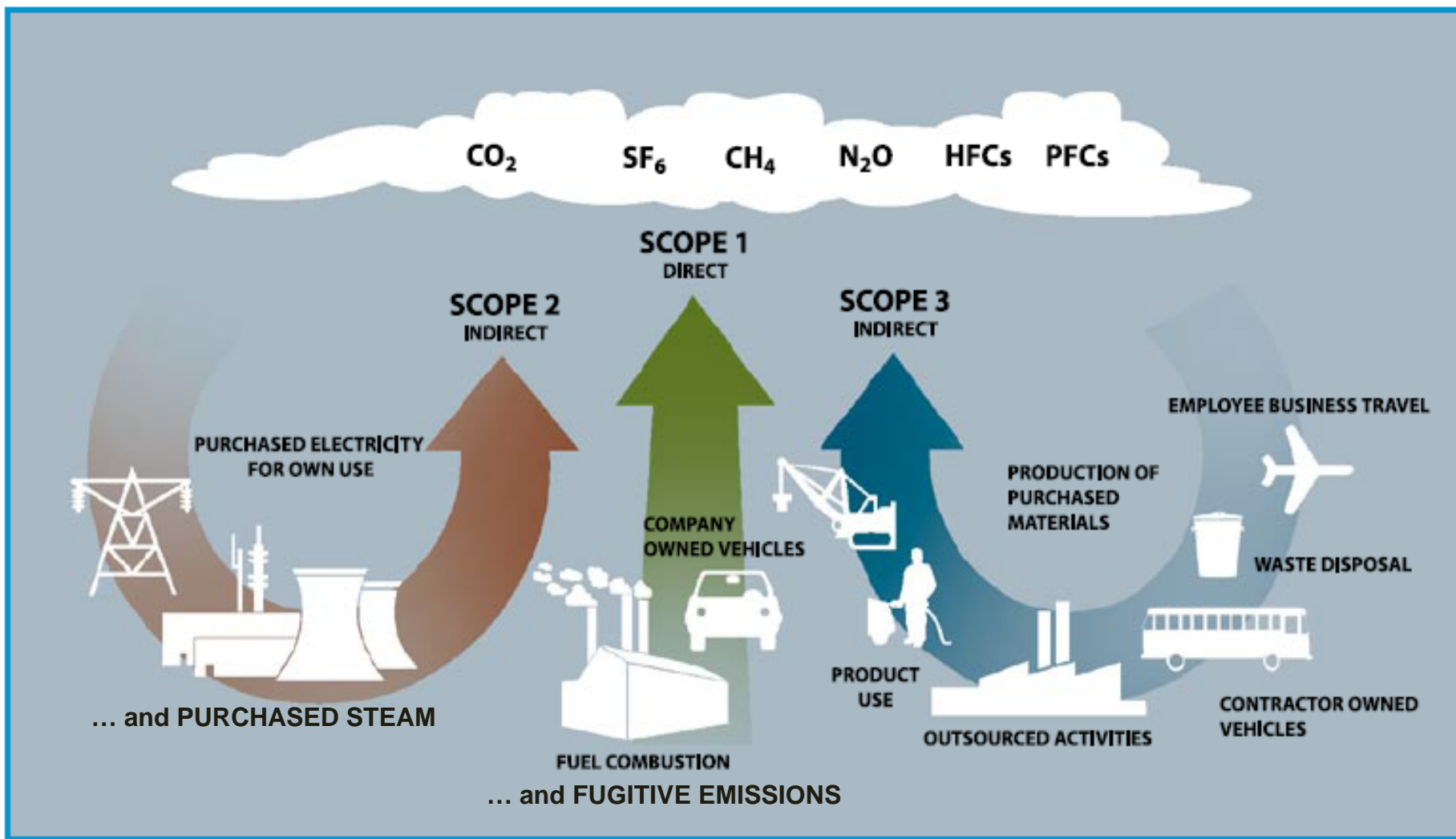
- **SCOPE 2: Direct GHG emissions from purchased utilities**

- Electricity
- Heat
- Steam

- **SCOPE 3: Indirect GHG emissions**

- Employee commuting
- Business travel
- Waste
- Production & transport of purchased material
- Other

Compliance with EO 13514 means DOE will have to gather data on Scopes 1, 2 and 3 emissions from a number of sources.



Reduce Potable Water Consumption

- E.O. 13514 extends the E.O. 13423 goal of reducing potable water consumption intensity by 2 percent annually, by requiring a 26 percent reduction by the end of FY 2020, relative to baseline of FY 2007. This is to be accomplished, at least in part, by using water efficient and low-flow fixtures, and efficient cooling towers.

Water Use: Reduce and Reuse

- E.O. 13514 establishes a new goal of reducing industrial, landscaping, and agricultural water consumption intensity by 2 percent annually or 20 percent by end of FY 2020, relative to baseline of FY 2010 for each use.
- E.O. 13514 requires DOE to identify, promote and implement water reuse strategies to reduce potable water consumption (consistent with State law).

Water Management: Stormwater

- E.O. 13514 requires DOE to implement and achieve objectives identified in the EPA's *Stormwater Guidance for Federal Facilities*.
- The E.O. requires EPA to issue this guidance within 60 days of the issuance of the Order.

Waste Diversion

- Minimize the generation of waste and pollutants through source reduction.
- Divert from disposal at least 50 percent of non-hazardous solid waste, excluding construction and demolition debris, by FY 2015.
- Divert from disposal at least 50 percent of construction and demolition debris by FY 2015.
- Increase the quantity of compostable and organic material diverted from waste stream.
- Reduce printing paper use.

Waste Reduction: Chemicals

- Minimize the quantity of toxic and hazardous chemicals and materials acquired, used, and disposed of.
- Implement integrated pest management and other landscape management practices.
- Increase use of alternative chemicals and processes.
- Decrease the use of chemicals where this will assist DOE in achieving GHG emission reduction targets.

High Performance Sustainable Building

- Design all new Federal buildings which begin the planning process by 2020 to achieve zero-net energy by 2030.
- E.O. 13514 extends E.O. 13423 goal of ensuring 15 percent of the agency's existing facilities and leases meet the *Guiding Principles* by FY 2015 by requiring agencies to continue to make annual progress towards 100 percent agency conformance.
- Minimize consumption of energy, water and materials by pursuing cost-effective, innovative strategies such as highly reflective and vegetated roofs.

Buildings: Portfolio Management

- Reduce deferred maintenance costs of existing assets by better managing existing building systems that impact consumption of energy, water, and materials and by identifying alternatives to renovation.
- Identify opportunities to consolidate and dispose of existing assets, optimize performance of agency real property portfolio, and reduce associated environmental impacts.
- Promote long-term viability of Federally-owned historic buildings by ensuring that rehabilitation utilizes best practices and technologies in retrofitting.

Sustainable Acquisition

Ensure that 95 percent of all new contract actions (including task and delivery orders) for products and services are:

- energy efficient,
- water-efficient,
- biobased,
- environmentally preferable,
- non-ozone depleting,
- contain recycled content, or are
- non-toxic or less-toxic than traditional alternatives,

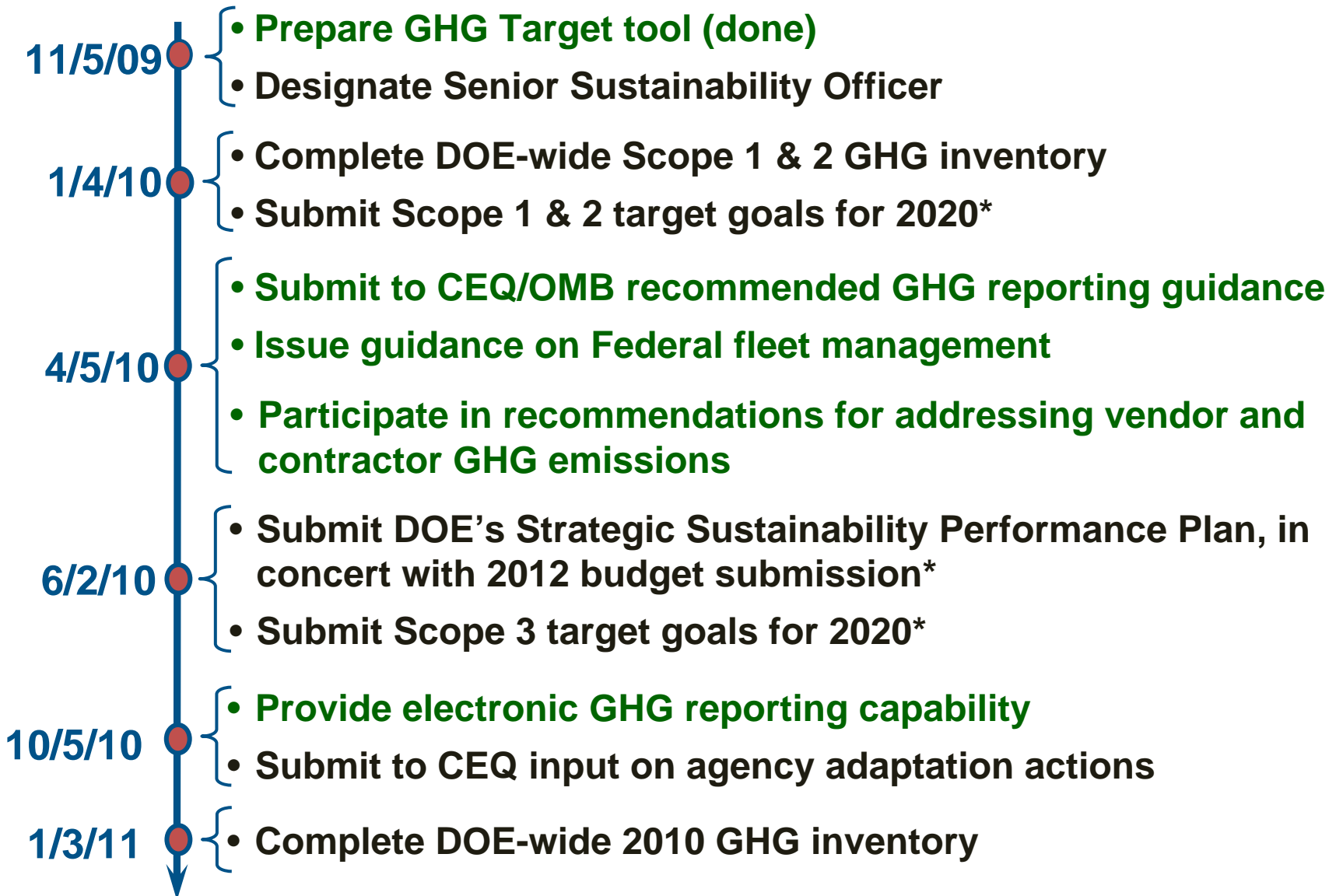
where such products and services meet DOE performance requirements.

Environmental Management Systems

E.O. 13514 explicitly requires that DOE sustain EMSs, including:

- Continuing implementation of formal environmental management systems at all appropriate organizational levels, and
- Ensuring that these formal systems are appropriately implemented and maintained to achieve the performance necessary to meet the goals of this order.

NEAR-TERM DEADLINES



Green: FEMP-Specific Tasks Black: Agency Requirements

* Scored & Approved by OMB & CEQ

Strategic Sustainability Performance Plan

By June 2, 2010, Submit the SSP Plan that shall:

- Demonstrate how DOE will achieve the goals and targets in Section 2 of the E.O., including agency GHG reduction targets;
- Be integrated into DOE's strategic planning and budget process;
- Identify DOE activities, policies, plans, procedures and practices that are relevant to implementation of the E.O., and develop new ones where necessary;
- Identify specific goals, a schedule, milestones, and approaches for achieving results; and quantifiable metrics for DOE implementation of the E.O.
- Incorporate actions for achieving progress metrics identified by OMB and CEQ

The SSP Plan shall (cont.):

- Take into consideration environmental measures as well as economic and social benefits and costs in evaluating projects and activities based on lifecycle return on investment;
- Outline planned actions to make available information about DOE progress and performance on a public website;
- Evaluate climate change risks and vulnerabilities to managing the effects on DOE operations and missions;
- Take into consideration environmental measures as well as economic and social benefits and costs in evaluating projects and activities based on lifecycle return on investment;
- Identify opportunities for improvement in annual updates.

Next Steps

- DOE faces several challenging near-term deadlines:
 - Preparing GHG inventories
 - Establishing GHG reduction targets
 - Developing a *Strategic Sustainability Performance (SSP) Plan*
- DOE must integrate budget and implementation of SSP Plan
- Our longer-term challenge will be to meet our GHG reduction targets and other goals.

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