



GOALS FOR DOE IN EXECUTIVE ORDER 13514 *Federal Leadership in Environmental, Energy, and Economic Performance*



SYNOPSIS

On October 5, 2009, the President signed Executive Order (E.O.) 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*. The new E.O.:

- establishes greenhouse gas (GHG) emission reductions as an overarching, integrating performance metric for all Federal agencies; and
- requires a deliberative planning process, linked to budget allocations and scored by the Office of Management and Budget (OMB), to ensure goal achievement.

A companion Information Brief provides an overview of E.O. 13514.

E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* (January 29, 2007) is not revoked by the new E.O.; its goals and requirements remain in effect.

BACKGROUND

E.O. 13514 requires reductions of the Department's scope 1, 2, and 3 GHG emissions.

Scope 1 emissions are direct GHG emissions from sources owned or controlled by the Federal agency.

Scope 2 emissions are direct GHG emissions resulting from the generation of electricity, heat, or steam purchased by a Federal agency.

Scope 3 emissions are GHG emissions from sources not owned or directly controlled by a Federal agency, but related to agency activities such as vendor supply chains, delivery services, and employee travel and commuting.

The E.O. requires the Department to develop its specific

GHG emission reduction targets and establishes additional goals for the Department. E.O. 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* (January 29, 2007) is not revoked by the new E.O.; its goals and requirements remain in effect. This Information Brief only describes new goals arising from E.O. 13514.

GOALS

Goal: Inventory, Report, and Reduce Greenhouse Gas Emissions

- Calculate and provide a Department of Energy (DOE)-wide GHG emissions baseline for Fiscal Year (FY) 2008 of DOE's scope 1 and 2 emissions (within 90 days) and scope 3 emissions (within 240 days).
- Establish DOE-wide targets for reduction of GHG emissions by FY 2020 relative to the FY 2008 baseline of DOE's scope 1 and 2 emissions (90 days) and scope 3 emissions (240 days).

For scope 1 and 2 GHG emissions, the target shall consider reductions in GHG emissions attributable to achieving the goals of E.O. 13423, including:

- Reducing energy intensity in DOE buildings;
- Increasing use of renewable energy;
- implementing renewable energy projects on DOE property; and
- Reducing the use of fossil fuels by:
 - using low GHG-emitting vehicles, including alternative fuel vehicles;
 - optimizing the number of vehicles in DOE's fleet; and
 - reducing DOE fleet's total consumption of petroleum products by a minimum of 2 percent annually through FY 2020 (relative to a FY 2005 baseline).

For scope 3 GHG emissions, the target shall consider reductions associated with:

- Pursuing opportunities with contractors and vendors to address and incorporate incentives to reduce GHG emissions;

- Implementing strategies and accommodations for transit, travel, training and conferencing that actively support lower-carbon commuting and travel by DOE staff;
- Pursuing other relevant E.O. goals associated with GHG reductions; and
- Developing and implementing innovative policies and practices to address scope 3 GHG emissions unique to DOE operations.

DOE shall report to the Council on Environmental Quality and OMB, within 15 months of the E.O. issuance, a comprehensive inventory of DOE's absolute GHG emissions including scope 1 and 2 and specified scope 3 emissions for FY 2010 and annually thereafter.

Goal: Improve Water Use Efficiency and Management

- Extend the E.O. 13423 goal of reducing potable water consumption intensity by 2 percent annually by requiring a 26 percent reduction by end of FY 2020 (relative to a FY 2007 baseline). This is to be accomplished, at least in part, by using water efficient and low-flow fixtures, and efficient cooling towers.
- Reduce DOE industrial, landscaping, and agricultural water consumption by 2 percent annually or 20 percent by end of FY 2020 (relative to a FY 2010 baseline for each use).
- Identify, promote and implement water reuse strategies (consistent with State law) to reduce potable water consumption.
- Implement and achieve the objectives identified in the Environmental Protection Agency's stormwater management guidance for Federal facilities.

Goal: Promote Pollution Prevention and Eliminate Waste

- Minimize 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 the end of FY 2015.
- Divert from disposal at least 50 percent of construction and demolition materials and debris by the end of FY 2015.
- Reduce printing paper use.
- Reduce and minimize the quantity of toxic and hazardous chemicals and materials acquired, used, or disposed of.
- Increase the diversion of compostable and organic material from the waste stream.

- Implement integrated pest management and other appropriate landscape management practices.
- Increase DOE use of acceptable alternative chemicals and processes in keeping with DOE's procurement policies.
- Decrease DOE use of chemicals where such decrease will assist the DOE in achieving the Department's GHG reduction targets.

Goal: Advance Regional and Local Integrated Planning

- Participate in regional transportation planning and recognize existing community transportation infrastructure.
- Align Federal policies to increase the effectiveness of local planning for energy choices such as locally generated renewable energy.
- Ensure that planning for new DOE facilities or new leases includes consideration of sites that are pedestrian friendly, near existing employment centers, and accessible to public transit and emphasizes existing central cities and, in rural communities, existing or planned town centers.
- Identify and analyze impacts from energy use and alternative energy sources under the National Environmental Policy Act for proposals for new or expanded DOE facilities.
- Coordinate with regional programs for Federal, tribal, state, and local ecosystem, watershed, and environmental management.

Goal: Implement High Performance Sustainable Building Design, Construction, Operation and Management, Maintenance, and Deconstruction

- Ensure that DOE buildings entering the planning process after 2020 are designed to achieve zero-net-energy by 2030.
- Achieve the E.O. 13423 goal of ensuring that at least 15 percent of DOE's existing facilities and building leases (above 5,000 gross square feet) meet the Guiding Principles by FY 2015 and continue to make annual progress towards 100 percent DOE conformance with the Guiding Principles.
- Pursue cost-effective, innovative strategies, such as highly reflective and/or vegetated roofs, to minimize consumption of energy, water, and materials.
- Manage existing building systems to reduce the consumption of energy, water, and materials, and identify alternatives to renovation that reduce existing assets' deferred maintenance costs.
- Identify opportunities to consolidate and dispose of existing assets, optimize performance of DOE's real

property portfolio and reduce associated environmental impacts.

- Promote long-term viability of DOE-owned historic buildings by ensuring that rehabilitation utilizes best practices and technologies in retrofitting.

Goal: Advance Sustainable Acquisition

- Ensure that 95 percent of all new contract actions (including task and delivery orders) for products and services are: energy-efficient (Energy Star or Federal Energy Management Program (FEMP)-designated), 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.

Goal: Promote Electronics Stewardship

- Ensure procurement preference for Electronic Products Environmental Assessment Tool-registered electronic products.
- Establish and implement policies to enable power management, duplex printing, and other energy efficient or environmentally preferable features on all eligible DOE electronic products.
- Employ environmentally sound practices with respect to disposition of all DOE excess or surplus electronic products.
- Ensure the procurement of Energy Star and FEMP-designated electronic equipment.
- Implement best management practices in energy efficient management of servers and Federal data centers.

Goal: Sustain Environmental Management Systems

- Continue implementation of formal environmental management systems at all appropriate organizational levels.
- Ensure these formal environmental management systems are appropriately implemented and maintained to achieve the performance necessary to meet the goals of the E.O..

The Office of Environmental Policy and Assistance establishes environmental protection policy for DOE, and provides assistance to DOE elements on implementation of policy and resolution of compliance matters. Please refer any questions and requests for assistance concerning the subject material covered in this Information Brief to:

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HS 22 Distribution – November 2009

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