

U.S. Nuclear Regulatory Commission



2012 Strategic Sustainability Performance Plan

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POINT OF CONTACT

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POLICY STATEMENT

The U.S. Nuclear Regulatory Commission (NRC) is committed to protecting public health and safety by conducting our operations and activities in an environmentally responsible and sustainable manner. We recognize that reducing and, where possible, eliminating the environmental impacts of our activities is an important part of our mission as stewards of public health and safety. We view sustainability as a long-term approach to business planning and decision-making that balances our economic, environmental, and social responsibilities.

In support of our sustainability initiative, the NRC will:

- Meet or exceed all applicable local, state, and federal environmental laws and regulations;
- Continually enhance our business practices and services to minimize our environmental impact;
- Effectively manage the agency's ecological footprint by reducing the use of natural resources through source reduction and pollution prevention; and
- Protect and support the health and safety of our employees and the surrounding communities and ecosystems.

EXECUTIVE SUMMARY

Greenhouse Gas Reduction Goals

Under Executive Order 13514, "Federal Leadership in Environmental, Energy, and Economic Performance," the U.S. Nuclear Regulatory Commission (NRC) submitted its greenhouse gas (GHG) reduction targets for scope 1 and 2 emissions. The NRC has committed to a scope 1 and 2 reduction target of 4.4 percent by fiscal year (FY) 2020 and a scope 3 reduction goal of 5 percent by FY 2020.

The FY 2020 target reduction is based on the NRC's plan to consolidate a number of leased facilities—which are not part of its current headquarters complex—to a new 358,440 square foot office certified as a Leadership in Energy and Environmental Design building. The energy efficiency of the new building, aggressive energy reduction efforts in the existing headquarters facilities, and some changes in how the agency does business will help the NRC meet its FY 2020 reduction targets.

Summary of Accomplishments

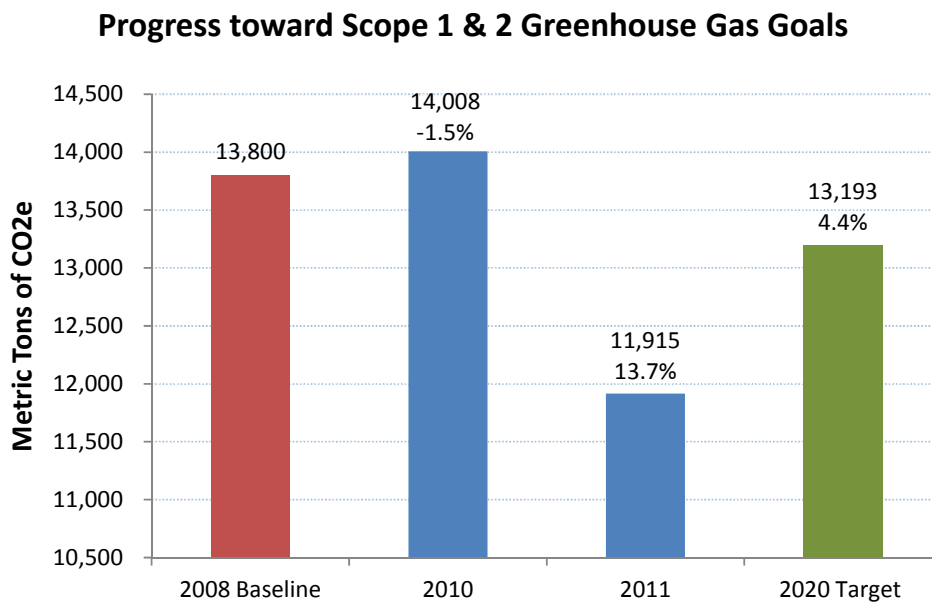
During FY 2011, the NRC implemented and continued a number of energy-reduction projects. New variable frequency drives were installed on two of the NRC's existing chillers in the One White Flint North building. This will allow the agency to operate at greater efficiencies throughout the year during part load conditions. In addition, the agency continues to expand its telework program to allow employees more opportunities to work from home, thereby reducing scope 3 GHG caused by commuting and waste water treatment. Currently, the NRC is upgrading its restrooms with water-saving toilets and faucets. When completed, the estimated water savings will be in the range of 10 to 15 percent.

TABLE 1: SIZE AND SCOPE OF AGENCY OPERATIONS

Agency Size and Scope	FY 2011
Total Number of Employees as Reported in the President's Budget	3,042
Total Acres of Land Managed	5
Total Number of Facilities Owned	0
Total Number of Facilities Leased (GSA and Non-GSA lease)	2
Total Facility Gross Square Feet (GSF)	998,000
Operates in Number of Locations Throughout U.S.	6
Operates in Number of Locations Outside of U.S.	0
Total Number of Fleet Vehicles Owned	1
Total Number of Fleet Vehicles Leased	33

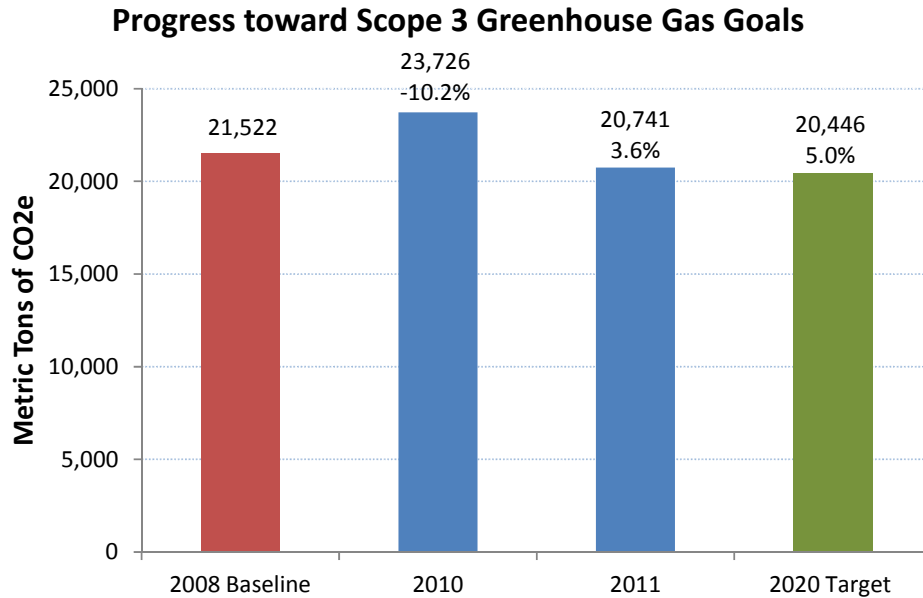
GOAL 1: GREENHOUSE GAS REDUCTION AND MAINTENANCE OF AGENCY COMPREHENSIVE GREENHOUSE GAS INVENTORY

Agency-Specific Performance Metrics for Scope 1 & 2 GHG Emissions Reduction:



Note: E.O. 13514 requires each agency to establish a scope 1 & 2 GHG reduction target for FY2020. The target for this agency is 4.4% compared to FY2008. The red bar represents the agency's FY2008 baseline. The green bar represents the FY2020 target reduction. The blue bars show actual status in relationship to the target. The percentage on each bar shows the reduction or increase from the FY2008 baseline. A negative percentage reflects an increase in scope 1 & 2 GHG emissions.

Agency-Specific Performance Metrics for Scope 3 GHG Emissions Reduction:

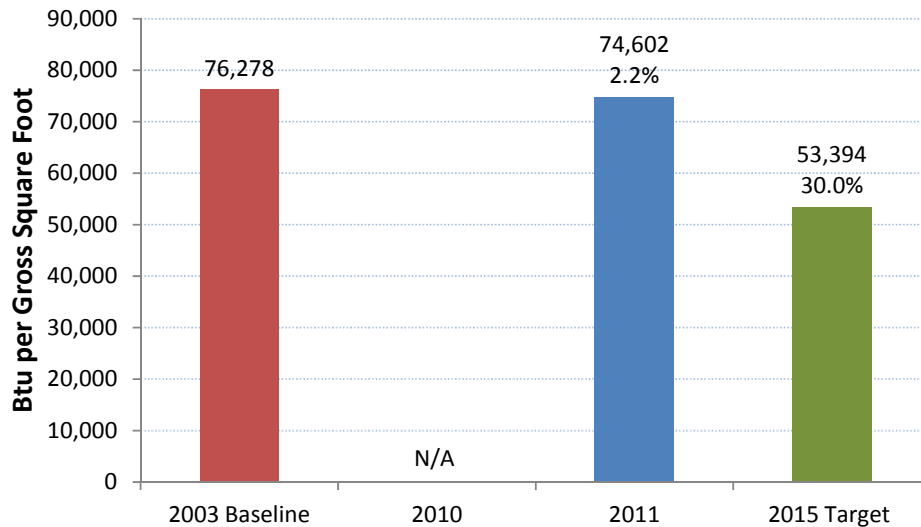


Note: E.O. 13514 requires each agency to establish a scope 3 GHG reduction target for FY2020. The FY2020 target for this agency is 5% compared to the FY2008 baseline. The red bar represents the agency's FY2008 baseline. The green bar represents the FY2020 target reduction. The blue bars show actual status in relationship to the target. The percentage on each bar shows the reduction or increase from the FY2008 baseline. A negative percentage reflects an increase in scope 3 GHG emissions.

GOAL 2: BUILDINGS

Agency-Specific Performance Metrics for Facility Energy Intensity Reduction:

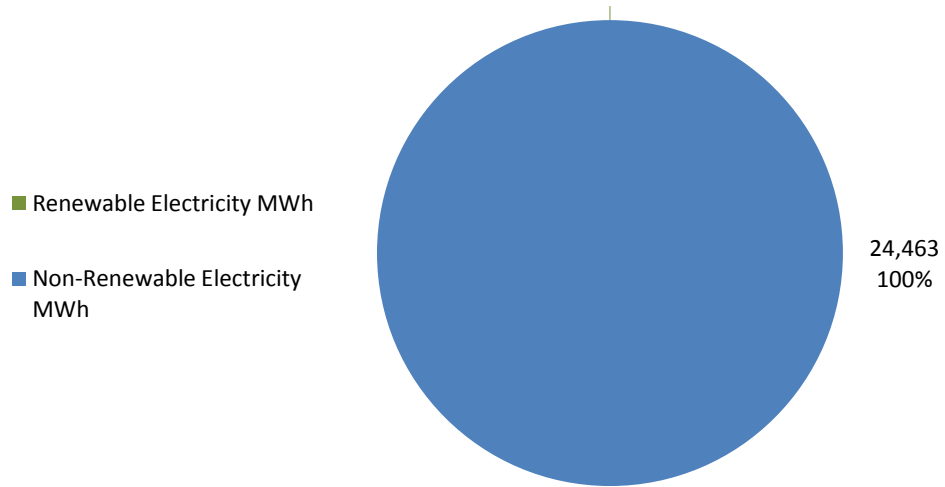
Progress toward Facility Energy Intensity Reduction Goals



Note: EISA requires agencies to reduce energy intensity by 18% for FY2011, compared to an FY2003 baseline; a 30% reduction is required by FY2015. The red bar represents the agency's FY2003 baseline. The green bar represents the FY2015 target reduction. The blue bars show actual status in relationship to the target. The percentage on each bar shows the reduction or increase from the FY2003 baseline.

Agency-Specific Performance Metrics for Renewable Energy:

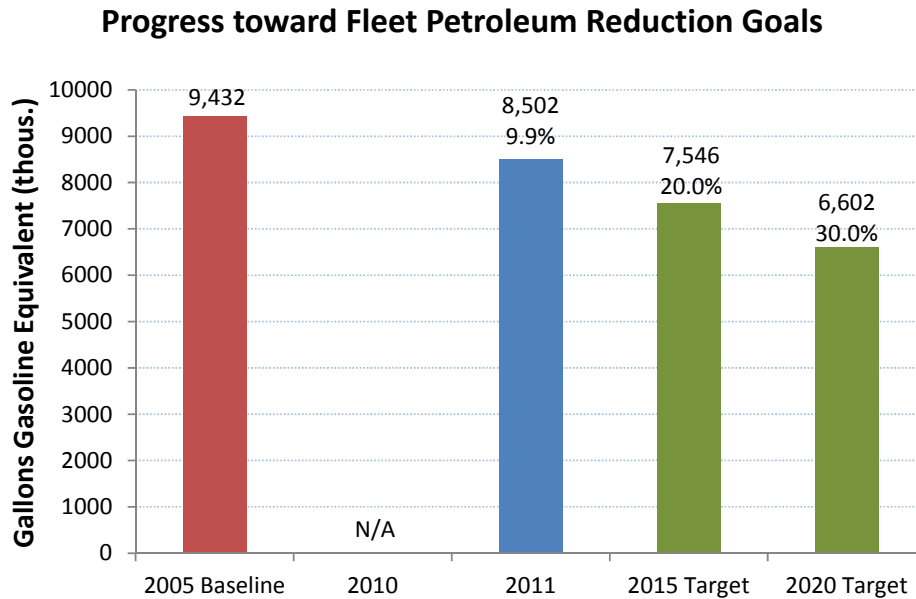
NRC Use of Renewable Energy as a Percentage of Electricity Use



Note: EPCRA requires agencies to increase the use of renewable energy as a percentage of electricity use to 5% by FY2010-2012 and 7.5% by FY2013 and beyond.

GOAL 3: FLEET MANAGEMENT

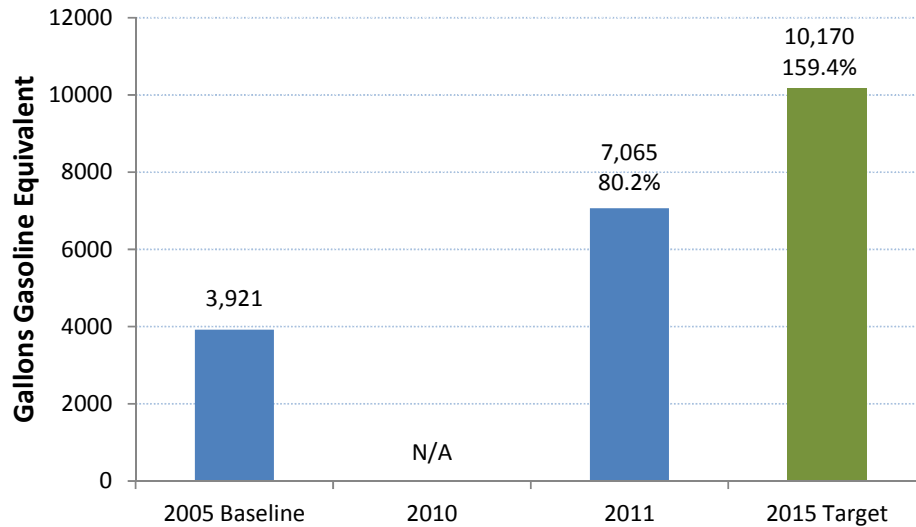
Agency-Specific Performance Metrics for Fleet Petroleum Reduction:



Note: E.O. 13514 and EISA require that by FY2011 agencies reduce fleet petroleum use by 12%, compared to an FY2005 baseline. A 20% reduction is required by FY2015 and a 30% reduction is required by FY2020. The red bar represents the agency's FY2005 baseline. The green bars represent the FY2015 and FY2020 target reductions. The blue bars show actual status in relationship to the target. The percentage on each bar shows the reduction or increase from the FY2005 baseline.

Agency-Specific Performance Metrics for Fleet Alternative Fuel Use:

Progress toward Fleet Alternative Fuel Consumption Goals

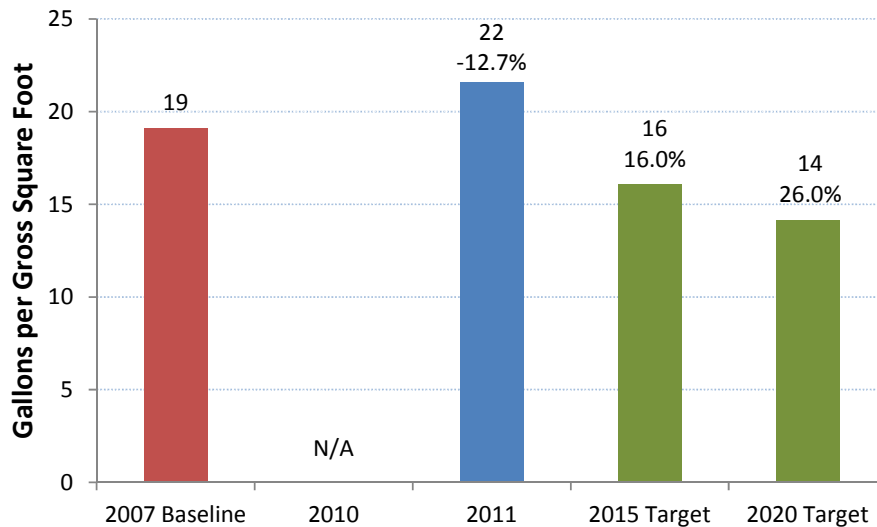


Note: E.O. 13423 requires that agencies increase total non-petroleum-based fuel consumption by 10% annually compared to an FY2005 baseline. Consequently, by FY2011 agencies must increase alternative fuel use by 77%, compared to an FY2005 baseline. By FY2015, agencies must increase alternative fuel use by 159.4%. The red bar represents the agency's FY2005 baseline. The green bar represents the FY2015 target. The blue bars show actual status in relationship to the target. The percentage on each bar shows the reduction or increase from the FY2005 baseline.

GOAL 4: WATER USE EFFICIENCY AND MANAGEMENT

Agency-Specific Performance Metrics for Potable Water Intensity Reduction:

Progress toward Potable Water Intensity Reduction Goals



Note: E.O. 13514 requires agencies to reduce potable water intensity by 2% annually through FY2020, compared to an FY2007 baseline. Consequently, by FY2011 agencies are required to reduce potable water intensity by 8%, compared to an FY2007 baseline. A 16% reduction is required by FY 2015 and a 26% reduction is required by FY2020. The red bar represents the agency's FY2007 baseline. The green bars represent the FY2015 and FY2020 target reductions. The blue bars show actual status in relationship to the target. The percentage on each bar shows the reduction or increase from the FY2007 baseline. A negative percentage reflects an increase in potable water intensity.

APPENDIX 1: CLIMATE CHANGE ADAPTATION PLAN

U.S. NUCLEAR REGULATORY COMMISSION
CLIMATE CHANGE ADAPTATION POLICY STATEMENT
June 2, 2011

The U.S. Nuclear Regulatory Commission's (NRC) mission is to license and regulate the Nation's civilian use of byproduct, source, and special nuclear materials, to ensure adequate protection of public health and safety, to promote the common defense and security, and to protect the environment.

It is the policy of NRC to carry out its operations in such a way as to maintain a safe and healthy work environment for building occupants. The NRC will ensure that adequate building services are provided to maintain optimum operational readiness to conduct our mission. The NRC recognizes that planning for climate change in conjunction with meeting energy usage and greenhouse gas reduction targets will aid the Federal government in reducing the consequences of climate changes caused by our operations.

The NRC adaptation planning and implementation resources are integrated into the mission of the Office of Administration and will be directed through the Division of Facilities and Security. Actions taken will be done in coordination with other Federal agencies.

/RA SStewart-Clark for/

Kathryn O. Greene
Senior Official for Climate Change
Adaptation Planning

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APPENDIX 2: FLEET MANAGEMENT PLAN

Acquisitions																				
Conventional Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alternative Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Disposals																				
Conventional Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alternative Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net change																				
Conventional Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alternative Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined net change																				
Conventional Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alternative Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Resulting fleet																				
Conventional Fuel Vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	5	0	0	5
Progress toward goal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Alternative Fuel Vehicles	0	0	3	8	0	0	11	2	7	9	1	19	0	0	0	0	0	0	0	30
Progress toward goal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Fleet size	0	0	3	8	0	0	11	2	7	9	1	19	0	3	0	2	5	0	0	35
Progress toward goal	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%