



Office of the Federal Environmental Executive (OFEE)

Federal GHG Accounting & Reporting Requirements E.O. 13514

October 7, 2010



E.O. 13514

- President Obama signed the Executive Order on Federal Leadership in Environmental, Energy and Economic Performance on October 5, 2009.
- This Order called on the Federal Government to lead by example towards building a clean energy economy – including measuring, reporting, and reducing GHG pollution from Federal activities.



GHG Requirements

- E.O. 13514 requires:
 - Submission of agency GHG emissions reduction targets for scopes 1, 2 and specified scope 3 emissions (Section 2a,b);
 - Submission of agency comprehensive GHG inventories (Section 2c);
 - Development of recommendations for accounting and reporting of GHG emissions (Section 9a);
 - Issuance of guidance for GHG accounting and reporting (Section 5);
 - Development of electronic accounting and reporting capability (Section 9b).



Federal Guidance – GHG Accounting & Reporting

- Recommendations provided by Federal Working Group established under E.O. 13514, Section 9 formed groundwork for Draft Federal Guidance.
- The Guidance establishes government-wide procedures for calculating and reporting greenhouse gas emissions associated with Federal agency activities.
- Guidance accompanied by Technical Support Document (TSD).
- Guidance issued by CEQ in accordance with E.O. 13514 on Oct 6, 2010.



What does the Guidance Include?

Main Guidance Document (POLICY)

- Chapter 1:** Introduction
- Chapter 2:** Organizational & Operational Boundaries
- Chapter 3:** Sequestration and Emissions from Land Use, Agriculture, and Biogenic Sources
- Chapter 4:** Renewable Energy and Carbon Offsets
- Chapter 5:** Reporting GHG Emissions
- Chapter 6:** Verification and Validation of GHG Emissions

Technical Support Document (TSD) (Calculation Methods)

- Chapter 1:** Introduction
- Chapter 2:** Reporting GHG Emissions
- Appendix A:** Calculating Scope 1 Emissions
- Appendix B:** Calculating Scope 2 Emissions
- Appendix C:** Calculating Scope 3 Emissions
- Appendix D:** Emission and Conversion Factors



Types of GHGs

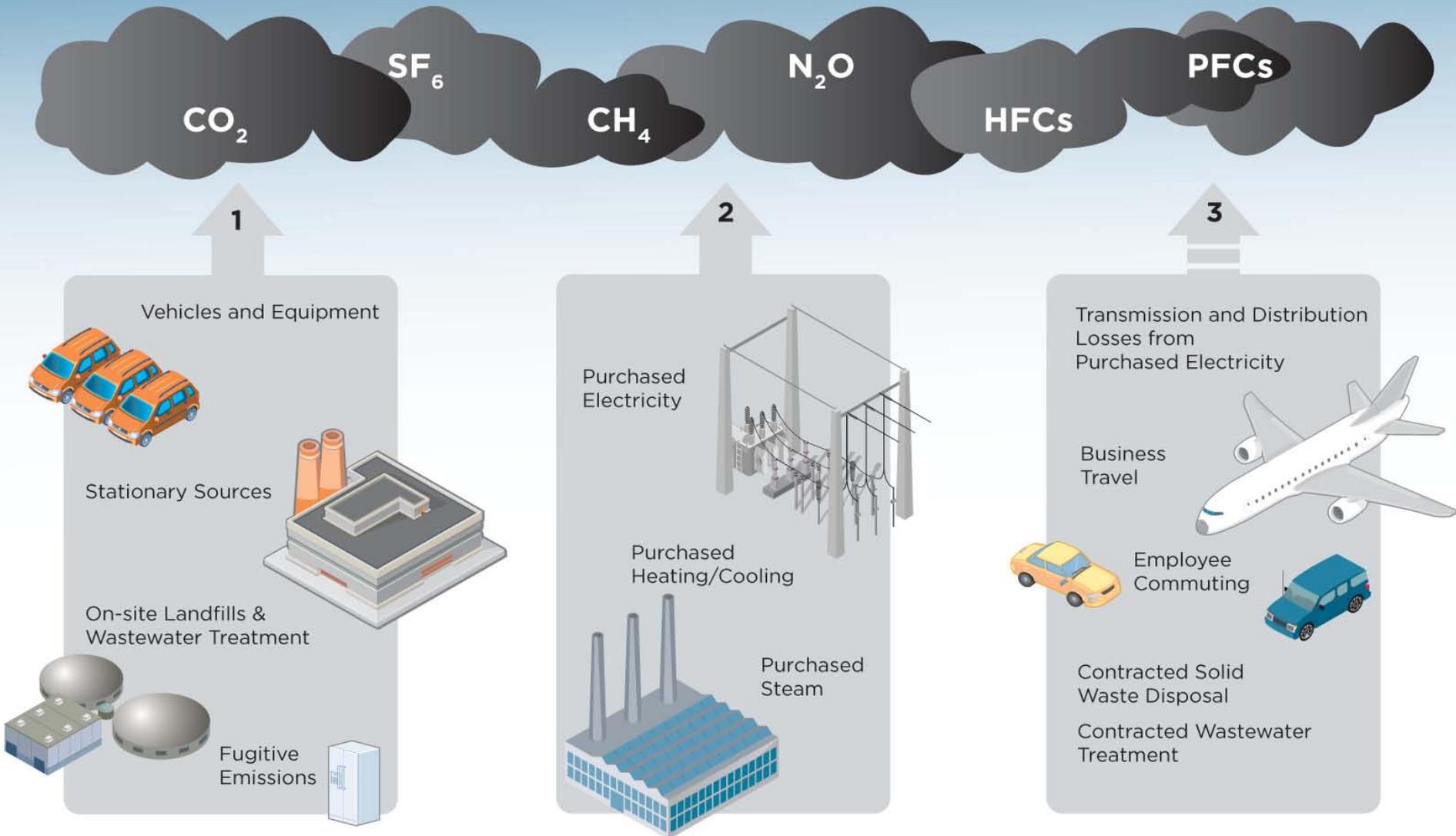
The primary greenhouse gases (GHGs) under consideration, as defined by E.O. 13514, are summarized below:

Greenhouse Gas	Common Sources/Uses	GWP*
Carbon dioxide (CO ₂)	Mobile and stationary combustion	1
Methane (CH ₄)	Coal mining, fuel combustion, landfills, wastewater treatment	21
Nitrous oxide (N ₂ O)	Fuel combustion, fertilizers	310
Hydrofluorocarbon gases (HFCs)	Refrigerants, fire suppressants, various manufacturing processes	12 – 11,700 [†]
Perfluorocarbon gases (PFCs)	Electrical equipment, various manufacturing processes, refrigerants, medicine	6,500 – 17,700 [†]
Sulfur hexafluoride (SF ₆)	Electrical equipment, various manufacturing processes, tracer in air modeling, medicine	23,900

* 100-year Global Warming Potential. Source: “EPA Greenhouse Gas Mandatory Reporting Rule (MRR),” [74 Federal Register (FR) 56260]. See the TSD for additional information.

[†] Many different individual gases constitute HFCs and PFCs, so there is a range of GWP values associated with each.

Common Sources of Federal Greenhouse Gas Emissions



SCOPE 1:

Greenhouse gas emissions from sources that are owned or controlled by a Federal agency.

SCOPE 2:

Greenhouse gas emissions resulting from the generation of electricity, heat, or steam purchased by a Federal agency.

SCOPE 3:

Greenhouse gas emissions from sources not owned or directly controlled by a Federal agency but related to agency activities.



Timeline for Guidance

- **April 15, 2010** – DOE-FEMP submitted final recommendations on GHG accounting and reporting procedures and accompanying Technical Support Document (TSD) to CEQ.
- **May 21 – June 4, 2010** – 1st round official interagency review and comment.
- **July 14 – Sep 1, 2010** – Public comment on draft guidance and TSD.
- **Aug 28 – Sep 9, 2010** – 2nd round official interagency review and comment.
- **Sep 13 – Oct 5** – CEQ/OMB final review process.
- **Oct 6, 2010** - CEQ Releases Final Guidance and TSD.



Public Comment

- The Draft Guidance and TSD were available for public review and comment at:

<http://www.whitehouse.gov/administration/eop/ceq/sustainability/fed-ghg>

- Comments can still be viewed at the site above.
- 27 comments submitted electronically or by mail.
- Comments were considered in final review process.



Public Comment (cont.)

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Draft Guidance for Federal Greenhouse Gas Accounting and Reporting

The Council on Environmental Quality (CEQ) released Draft Guidance for Federal Greenhouse Gas Reporting and Accounting for public comment on July 14, 2010. The draft guidance establishes government-wide requirements for calculating and reporting greenhouse gas emissions associated with Federal agency operations.

President Obama signed an [Executive Order on Federal Leadership in Environmental, Energy and Economic Performance](#) on October 5, 2009, which called on the Federal Government to lead by example towards building a clean energy economy, including by measuring, reporting, and reducing greenhouse gas emissions from direct and indirect activities. The Executive Order requires Federal agencies to "establish and report to the CEQ Chair and OMB Director a comprehensive inventory of absolute greenhouse gas emissions, including scope 1, scope 2, and specified scope 3 emissions." CEQ is responsible for issuing Federal guidance for this task.

The draft guidance is accompanied by a separate Draft Technical Support Document that provides detailed information on Federal inventory reporting requirements and calculation methodologies. The documents are available below:

[Draft Guidance – Federal GHG Accounting and Reporting](#)

[Draft Technical Support Document](#)



Final GHG Guidance

- Final release by CEQ on Oct 6, 2010.
- Available at:
<http://www.whitehouse.gov/administration/eop/ceq/sustainability/fed-ghg>
- Will require periodic update and revision to ensure that requirements, procedures and calculation methodologies are current.
- The Federal working group established by Section 9, E.O. 13514 will continue to provide recommendations for future revision to the Guidance and TSD.



Final GHG Guidance (cont.)

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- Carbon Capture & Storage
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- Federal Sustainability Sustainability Plans
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- Climate Change Adaptation Task Force
- America's Great Outdoors

Guidance for Federal Greenhouse Gas Accounting and Reporting

The White House Council on Environmental Quality (CEQ) released [Guidance on Federal Greenhouse Gas Accounting and Reporting](#) that establishes Government-wide requirements for measuring and reporting greenhouse gas (GHG) emissions associated with Federal agency operations.

The [Guidance](#) serves as the Federal Government's official Greenhouse Gas Protocol and will be used by Federal agencies to develop their first GHG inventories. Federal agencies will submit GHG inventories annually beginning in January of 2011, as called for in the Executive Order on Federal Leadership in Environmental, Energy and Economic Performance ([Executive Order 13514](#)) signed by President Obama on October 5, 2009.

Earlier this year, President Obama announced a Federal Government-wide target of a 28 percent reduction by 2020 in direct GHG emissions, such as those from fuels and building energy use, and a target 13 percent reduction by 2020 in indirect GHG emissions, such as those from employee commuting and landfill waste. Combined, these two goals could result in a cumulative reduction of 101 million metric tons of CO2 emissions, equivalent to the emissions from 235 million barrels of oil. Meeting Federal agency GHG pollution reduction targets is estimated to result in a cumulative \$8 billion to \$11 billion in avoided energy costs through 2020.

The Executive Order directed the Department of Energy's Federal Energy Management Program to develop recommended Federal GHG reporting and accounting procedures, in coordination with the Environmental Protection Agency, Department of Defense, General Services Administration, Department of the Interior, Department of Commerce, and other Agencies as appropriate. These recommendations established the foundation for the Guidance. CEQ released draft Guidance for public review and comment on July 12, 2010. ([Read public comments here.](#)) The Draft Guidance was accompanied by a separate Draft Technical Support Document that provided detailed information on Federal inventory reporting requirements and calculation methodologies.

The Executive Order commits the Federal Government to leading by example toward a clean energy economy. The Federal Government is the single largest energy consumer in the United States. The Executive Order sets targets



GHG Reporting Portal

- E.O. 13514 tasked DOE-FEMP to develop and deliver an electronic reporting capability (GHG Reporting Portal) to CEQ.
 - Agencies must use the official Reporting Portal to submit GHG inventories on Jan 31, 2011.
 - The GHG Reporting Portal was released for agency use on Oct 6, 2010.



GHG Reporting Portal (cont.)

- The Reporting Portal collects agency-aggregated data necessary for calculating scope 1, 2, and specified scope 3 GHG emissions.
- Aligned with the Guidance and TSD.
- Accepts outputs from the Federal Automotive Statistical Tool (FAST) to calculate the GHG emissions from Federal covered fleet fuel use.
- Incorporates existing agency reporting requirements for facility and operations energy and water use (previously reported separately to FEMP).



GHG Reporting Portal (cont.)

Integrated data reporting capability includes:

- Facility energy intensity reduction goals (30% in 2015 vs. 2003) under 42 U.S.C. 8253(a).
- Renewable electricity use requirement (5% in 2010, 7.5% in 2013 and beyond) under 42 U.S.C. 15852.
- Water intensity reduction (26% in 2020 vs. 2007) and base year reporting for non-potable industrial, landscaping, and agricultural use under E.O. 13514.
- Facility metering requirements under 42 U.S.C. 8253(e).
- Compliance with Federal energy efficiency standards for new construction under 10 CFR Parts 433, 434, and 435, 72 FR 72565.
- Energy efficiency and renewable energy investment information for fiscal year 2010.



Federal GHG Inventory

- Submission deadline – January 31, 2011.
- Submitted through the GHG Reporting Portal to CEQ Chair and OMB Director.
- Inventories aggregated at the HQ agency level.
- Agencies may use other tools to help collect and aggregate data (such as GSA Carbon Footprint Tool), but must be consistent with the Guidance and TSD.
- DOE-FEMP will provide training and assistance to agencies in preparation for the Jan 31 deadline.



Office of the Federal Environmental Executive (OFEE)

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