



## How Do I Know If I Am Subject To Greenhouse Gas Reporting Requirements?



### Synopsis

- The “Mandatory Greenhouse Gas (GHG) Reporting” Rule, 40 CFR Part 98, took effect on January 1, 2010.
- Qualifying facilities must submit annual GHG emissions reports that detail actual GHG emissions.
- The calendar year 2010 GHG emissions report is due by March 31, 2011.
- Persons responsible for submitting the report must notify EPA regarding their eligibility by January 30, 2011.
- The Rule requires a written plan detailing assigned personnel, record keeping, and monitoring activities associated with the GHG emissions report.

### BACKGROUND

On October 30, 2009, the Mandatory GHG Reporting Rule (MRR) was published in the Federal Register, (74 FR 56260). The MRR requires that qualifying facilities submit annual GHG emissions reports to the Environmental Protection Agency (EPA).

EPA has included within the MRR a comprehensive list of GHGs that will be reported under this program. GHGs include: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), sulfur hexafluoride (SF<sub>6</sub>), perfluorocarbons (PFC), hydrofluorocarbons (HFC), and nitrogen trifluoride (NF<sub>3</sub>). Total GHG emissions are reported as total carbon dioxide equivalent (CO<sub>2</sub>e) emissions. CO<sub>2</sub>e emissions are calculated by multiplying each GHG by its global warming potential (GWP), which is included in the MRR. For example, CH<sub>4</sub> has a GWP of 21; thus, two tons of CH<sub>4</sub> emissions are equivalent to 42 tons of CO<sub>2</sub>e.

### APPLICABILITY

There are four tiers of applicable sources (from 40 CFR §98.2(a)):

Tier 1: Listed facilities, e.g. electricity generating units reporting GHG emissions per 40 CFR Part 75;

Tier 2: Listed facilities with actual GHG emissions greater than 25,000 metric tons (MT) of CO<sub>2</sub>e emissions per year from miscellaneous use of carbonates, stationary fuel combustion, and listed operations;

Tier 3: Facilities otherwise not reporting under Tier 1 or Tier 2, with actual GHG emissions greater than 25,000 MT CO<sub>2</sub>e and an aggregate maximum rated heat input capacity from stationary fuel combustion of 30 million British thermal units per hour (MMBtu/hr) or greater; and

Tier 4: GHG suppliers, exporters, and importers.

### CALCULATING GHG EMISSIONS

Table 1 shows the emissions factors for the four most commonly used fuels within the Department of Energy (DOE). To determine if a facility is subject to the GHG MRR, obtain facility-wide total fuel usage for 2009 and make an estimate for 2010. Then, multiply the fuel usage values by the emissions factors in Table 1 to calculate total GHG emissions from fuel combustion, expressed as CO<sub>2</sub>e. The emissions factors below include all GHG emitted from fuel burning; no further conversions are necessary.

**Table 1: Fuel Emission Factors**

Fuel	Emission Factor
Natural Gas	$5.456 \times 10^{-5}$ MT CO <sub>2</sub> e/std cubic ft
#6 Fuel Oil	$1.130 \times 10^{-2}$ MT CO <sub>2</sub> e/gallon
#2 Fuel Oil	$1.024 \times 10^{-2}$ MT CO <sub>2</sub> e/gallon
Bituminous Coal	2.3465 MT CO <sub>2</sub> e/short ton (U.S.)

From 40 CFR Part 98, Subpart C, Tables C-1 & C-2 and Subpart A, Table A-1

If total CO<sub>2</sub>e emissions are greater than or equal to 25,000 MT/year, an annual GHG report must be submitted for calendar year 2010. The fuel usage rates that correspond to 25,000 MT CO<sub>2</sub>e emissions are presented in Table 2.

**Table 2: 25,000 MT CO<sub>2</sub>e Fuel Usage Equivalency**

Fuel	Equivalent to 25,000 MT CO <sub>2</sub> e
Natural Gas	458.2 million (MM) cubic ft/year
#6 Fuel Oil	2,212,121 gallons/year
#2 Fuel Oil	2,441,223 gallons/year
Bituminous Coal	10,654 short tons (U.S.)/year

From 40 CFR Part 98, Subpart C, Tables C-1 & C-2 and Subpart A, Table A-1

If a fuel used is not included in the above tables, obtain the CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions factors from 40 CFR, Part 98, Subpart C, Tables C-1 and C-2. Use the factors in the following equation to obtain the CO<sub>2</sub>e emissions factor:

$$\text{CO}_2\text{e factor} = \text{CO}_2 + (\text{CH}_4 \times 21) + (\text{N}_2\text{O} \times 310)$$

Subparts C through PP of the GHG MRR detail the calculation, monitoring, and record keeping requirements for each specific source category, (e.g. Subpart C is for stationary fuel combustion). Each subpart details the type of GHG emissions to be reported for the source category and sources exempt from the category. For example, only CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions are required for stationary fuel combustion calculations. Most DOE sites are expected to report GHG emissions from stationary fuel combustion.

## RECORDKEEPING

A written GHG monitoring plan is required for each facility subject to the rule. This plan should identify the responsible personnel, calculation methodologies, and monitoring, calibration, certification, and record keeping activities used to submit a GHG emissions report. Standard operating

procedures may be included as part of the plan. All records, including previously submitted reports, must be maintained on-site for five years.

## VERIFICATION

Independent or third-party verification is not required for this GHG emissions report. EPA will conduct reviews and audits of the GHG emissions reports and applicable facilities.

## REPORT SUBMISSION

The annual GHG emissions report is due by March 31 of the following calendar year. The first GHG emissions report, for calendar year 2010 emissions, will be due on March 31, 2011. Any revisions to a report must be submitted within 45 days of either discovering an error requiring the revision, or receiving notice from EPA of an error.

Each facility which is required to submit a GHG emissions report must designate a representative (DR) who will submit reports on behalf of the facility. The DR must register with EPA and certify that a written “document of agreement” exists between the owner / operator of the facility and the DR, authorizing the DR to submit the annual report. For DOE sites, “documents of agreement” may be prepared by the site contractor, at the direction of the DOE site manager.

*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 Notice to:*

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