

# Injection of Carbon Dioxide: Subpart UU

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## Greenhouse Gas Reporting Program

*Under subpart UU of the Greenhouse Gas (GHG) Reporting Program, facilities that inject carbon dioxide (CO<sub>2</sub>) underground for enhanced oil and gas recovery or any other purpose must report basic information on the amount of CO<sub>2</sub> that is received for underground injection.*

## How Is This Source Category Defined?

The subpart UU source category comprises a well or group of wells that inject CO<sub>2</sub> into the subsurface, including Underground Injection Control (UIC) Class II wells used to enhance oil and gas recovery and wells receiving a geologic sequestration research and development (R&D) exemption from subpart RR. Facilities that report under subpart RR for a well or group of wells are not required to report under subpart UU for that well or group of wells.

## What GHGs Must Be Reported?

All facilities that inject CO<sub>2</sub> underground must report basic information on the amount of CO<sub>2</sub> received for injection.

## When Does Reporting Begin?

Facilities subject to subpart UU must begin monitoring GHG emissions on January 1, 2011 in accordance with the methods specified in subpart UU. For 2012 only, the GHG report must be submitted to EPA by September 28, 2012. This reporting deadline applies to all subparts being reported by the facility. If your subpart UU facility submitted a GHG annual report for reporting year 2010 under another subpart (e.g., subpart C for general stationary fuel combustion), then by April 2, 2012 you must notify EPA through e-GGRT that you are not required to submit the second annual report until September 28, 2012 (the notification deadline according to 4 CFR 98.3(b) is March 31, 2012, however, because this date falls on a Saturday in 2012, the notification is due on the next business day).

Starting in 2013 and each year thereafter, reports must be submitted to EPA by March 31 of each year, unless the 31st is a Saturday, Sunday, or federal holiday, in which case the reports are due on the next business day.

## What Information Must Be Reported?

All facilities that inject CO<sub>2</sub> underground must report the following annually:

- The mass of CO<sub>2</sub> received for injection for the first time into a well at the facility. The source of the CO<sub>2</sub> received, from the following categories: CO<sub>2</sub> production wells; electric generating units; ethanol plants; pulp and paper mills; natural gas processing; gasification

operations; other anthropogenic sources; CO<sub>2</sub> received from a discontinued enhanced oil and gas recovery project; or unknown.

## **How Should GHG Data Be Calculated?**

All facilities that inject CO<sub>2</sub> underground must calculate the mass of CO<sub>2</sub> received using mass or volumetric flow meters (or the mass or volume of containers), based on the CO<sub>2</sub> concentration in the flow. Reporters may use best available monitoring methods (BAMM) for calculating the mass of CO<sub>2</sub> received through the first quarter of 2011 or up to the end of 2011 if a BAMM extension is approved by EPA.

Where flow meters are used to calculate data, CO<sub>2</sub> flow and concentration data must be collected quarterly and aggregated to an annual quantity. To minimize the purchase and installation of new equipment, facilities subject to the UIC program may utilize the CO<sub>2</sub> flow meters installed for purposes of compliance with their existing UIC permits in order to calculate the CO<sub>2</sub> flow data. For facilities receiving CO<sub>2</sub> in containers, the mass or volume of contents in containers and concentration data must be collected quarterly and aggregated to an annual quantity.

## **For More Information**

This document is provided solely for informational purposes. It does not provide legal advice, have legally binding effect, or expressly or implicitly create, expand, or limit any legal rights, obligations, responsibilities, expectations, or benefits in regard to any person. The document is intended to assist reporting facilities/owners in understanding key provisions of the rule. It is not intended to be a substitute for the rule.

For technical information and implementation materials, please visit EPA's Web site at: [www.epa.gov/climatechange/emissions/ghgrulemaking.html](http://www.epa.gov/climatechange/emissions/ghgrulemaking.html). To submit a question, select Rule Help Center, and then select Contact Us.

For background information about GHGs and climate change science and policy, please see EPA's climate change Web site at: [www.epa.gov/climatechange](http://www.epa.gov/climatechange).