



**Final Greenhouse Gas Reporting Rule
for Geologic Sequestration and
Injection of Carbon Dioxide:
Subparts RR and UU**

Overview



- EPA has finalized greenhouse gas (GHG) reporting mechanisms for facilities that conduct geologic sequestration (subpart RR) and all other facilities that inject carbon dioxide (CO₂) underground for enhanced oil and gas recovery or any other purpose (subpart UU).
 - Geologic sequestration is the long-term containment of CO₂ in subsurface geologic formations and a key component of a set of climate change mitigation technologies known as carbon dioxide capture and sequestration (CCS).
- The information obtained through this rule will inform Agency decisions under the Clean Air Act (CAA) related to the use of CCS for mitigating GHG emissions.
 - Information obtained subpart RR enables EPA to monitor the growth and effectiveness of geologic sequestration over time and to evaluate relevant policy options related to this climate change mitigation option.
 - Information obtained under subpart UU enables EPA to evaluate data obtained on CO₂ received for injection in conjunction with data obtained from subpart PP of the GHG Reporting Program on CO₂ supplied to the economy.
- This rule is complementary to and builds on EPA's Underground Injection Control (UIC) requirements.
- EPA has designed this proposal so that facilities can comply with the reporting requirements without disrupting or delaying normal operations.

Background



- This final rule amends the regulatory framework for the GHG Reporting Program.
 - The GHG Reporting Program requires reporting of GHG emissions and other relevant information from certain source categories in the United States.
- Proposal signed on March 22, 2010.
- 60-day public comment period (April 12 to June 11, 2010).
 - Public hearing held on April 19, 2010.
 - Open door policy for listening sessions.
 - EPA received 16,300 comment submissions.
- Final rule signed on November 22, 2010.

Geologic Sequestration of Carbon Dioxide (Subpart RR)



- Facilities that conduct geologic sequestration by injecting CO₂ for long-term containment in subsurface geologic formations are required to:
 - Report basic information on CO₂ received for injection.
 - Develop and implement an EPA-approved site-specific monitoring, reporting, and verification (MRV) plan.
 - Report the amount of CO₂ geologically sequestered using a mass balance approach and annual monitoring activities.
- All facilities that hold a UIC Class VI permit must report under subpart RR.

Geologic Sequestration of Carbon Dioxide (Subpart RR)



- Facilities that inject CO₂ for enhanced oil and gas recovery and do not hold a UIC Class VI permit are not required to report geologic sequestration under subpart RR, but may choose to opt-in to these requirements.
- Geologic sequestration research and development (R&D) projects will be granted an exemption from subpart RR.
- All facilities subject to subpart RR are required to submit annual reports to EPA by September 28, 2012 reporting basic information on CO₂ received in 2011. In subsequent years, annual reports are due to EPA by March 31.
 - These facilities will add data to their annual reports on the amount of CO₂ that is geologically sequestered and annual monitoring activities once their EPA-approved MRV plans are implemented.

Injection of Carbon Dioxide (Subpart UU)



- All facilities that inject CO₂ underground for purposes besides geologic sequestration (subpart UU), such as for enhanced oil and gas recovery or any other purpose, are required to report basic information on CO₂ received for injection.
- Geologic sequestration R&D projects that receive an exemption from subpart RR are required to report under subpart UU.
- All facilities subject to subpart UU are required to submit annual reports to EPA by September 30, 2012 reporting basic information on CO₂ received in 2011. In subsequent years, annual reports are due to EPA by March 31.

For More Information



- For additional information about this rulemaking, visit EPA's Web site at: www.epa.gov/climatechange/emissions/ghgrulemaking.html
 - Preamble and rule
 - General technical support document
 - Responses to comments
 - Technical assistance materials
- If you have questions that cannot be answered through the Web site, please go to Rule Help Center, and then select Contact Us.

This information is intended to assist reporting facilities/owners in understanding key provisions of the proposed rule. However, this information is not intended to be a substitution for the rule.