



e-GGRT Training Webinar on
Reporting GHG Data for Subpart UU

U.S. Environmental Protection Agency

Greenhouse Gas Reporting Program (GHGRP)

May 31, 2012



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Webinar Outline



- e-GGRT overview
- Subpart UU
 - Selecting the Subpart
 - Reporting Data
- Subpart A
- Questions

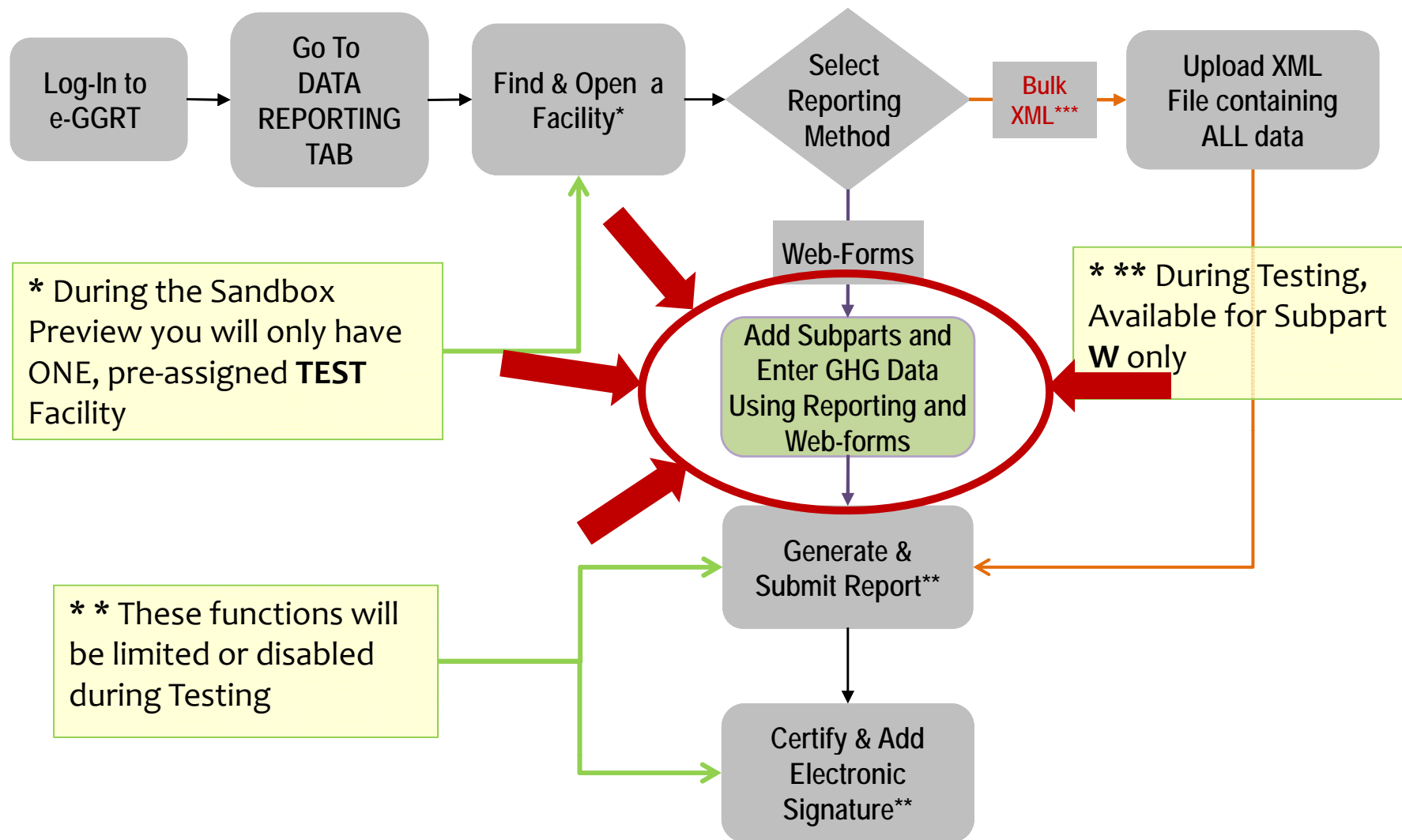
Topics for Today's Q &A



- Please only submit questions regarding e-GGRT functionality
- Questions on other topics (requirements of the Greenhouse Gas Reporting Rule, legal issues, etc.) should be submitted to **ghgreporting@epa.gov**



e-GGRT Data Reporting Workflow





Click Data Reporting Tab

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e-GGRT
Electronic Greenhouse Gas
Reporting Tool

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FACILITY MANAGEMENT
DATA REPORTING

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? e-GGRT Help

- ▶ General Reporting Information
- ▶ Other Help Resources

e-GGRT Greenhouse Gas Data Reporting (2011)

Select Facility

ANNUAL GHG DATA REPORTING

You must select a facility to begin using any Data Reporting features, which include: Specifying which subparts the facility will be reporting, entering or updating corporate parent information (subpart A), entering GHG data and viewing validation reports, and lastly, preparing and submitting the Annual Report to EPA.

REPORTING YEAR

▼

GO

FACILITIES REPORTING for 2011			
GHGRP ID	Facility or Supplier	Annual Report Status	Facility Overview
530418	Test Facility (Brookline, MA)	Not generated	OPEN

FACILITIES NOT REPORTING for 2011			
GHGRP ID	Facility or Supplier	Not Reporting Reason	

Facility Overview



! Changing the Reporting Method to XML will erase any data entered into Web-Forms

Test Facility
e-GGRT Greenhouse Gas Data Reporting (2011)
Select Facility » [Facility or Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW
This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.

After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

Facility's GIIG Reporting Method: Data entry via e-GGRT [web-forms \(Change\)](#)

CO₂ equivalent emissions (excluding biogenic) from subparts C - HH (metric tons) 0.0

Biogenic CO₂ emissions from subparts C - HH (metric tons) 0.0

CO₂ equivalent quantity from supplier categories (metric tons) 0.0

[VIEW GHG DETAILS](#)

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN
Subpart PP—Suppliers of Carbon Dioxide (CO ₂)	View Messages	OPEN

[+ ADD](#) or [REMOVE](#) Subparts

If you are planning to use the XML bulk upload option to report your facility or supplier's GHG data, visit our website to get more details. The link for learning how to submit data using this option is provided at the end of this presentation.

Adding Subparts



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e-GGRT Help

- How to add a subpart and report data
- General Reporting Information
- How to submit an annual report

Test Facility

e-GGRT Greenhouse Gas Data Reporting (2011)

Select Facility » [Facility or Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW

This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.

After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

Facility's GHG Reporting Method: Data entry via e-GGRT web-forms ([Change](#))



CO₂ equivalent emissions (excluding biogenic) from subparts C - HH (metric tons)



Biogenic CO₂ emissions from subparts C - HH (metric tons)



CO₂ equivalent quantity from supplier categories (metric tons)

[VIEW GHG DETAILS](#)

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN
Subpart PP—Suppliers of Carbon Dioxide (CO ₂)	View Messages	OPEN

[+ ADD or REMOVE Subparts](#)



Adding Subparts: Subpart UU Selection



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Test Facility
e-GGRT Greenhouse Gas Data Reporting (2011)
Select Facility » Facility Overview » **Subpart Selection**

SUBPART SELECTION
Please check all relevant subparts for this facility or supplier. Further information can be found in the e-GGRT Help links to the left.

FACILITY SUBPARTS

- D—Electricity Generation
Description (SHOW | HIDE)
- E—Adipic Acid Production
Description (SHOW | HIDE)
- F—Aluminum Production
Description (SHOW | HIDE)
- G—Ammonia Manufacturing
Description (SHOW | HIDE)
- UU—Injection of Carbon Dioxide**
Description (SHOW | HIDE)

GENERAL STATIONARY FUEL COMBUSTION

- C—General Stationary Fuel Combustion (Standard Reporting)
Description (SHOW | HIDE)

LANDFILL SUBPARTS

- HH—Municipal Solid Waste Landfills
Description (SHOW | HIDE)
- TT—Industrial Waste Landfills
Description (SHOW | HIDE)


SUPPLIER SUBPARTS

Select →

CANCEL **SAVE**



Subpart UU: Opening the Subpart



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Test Facility
e-GGRT Greenhouse Gas Data Reporting (2011)
[Select Facility](#) » [Facility or Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW

This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.

After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).

Facility's GHG Reporting Method: Data entry via e-GGRT web-forms ([Change](#))

CO₂ equivalent emissions (excluding biogenic) from subparts C - HH (metric tons) **0.0**

Biogenic CO₂ emissions from subparts C - HH (metric tons) **0.0**


CO₂ equivalent quantity from supplier categories (metric tons) **0.0**

[VIEW GHG DETAILS](#)

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN
Subpart UU—Impurities in Carbon Dioxide	View Messages	OPEN

[+](#) ADD or REMOVE Subparts



Check and open

Subpart UU: Reporting Instructions



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Test Facility

Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

Net annual mass of CO₂ received (metric tons)

Subpart UU: View Validation

FACILITY INFORMATION

Sources of CO₂ Received

CO₂ production wells, Natural gas processing, Unknown

[OPEN](#)

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	✘
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	✘
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	✘
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	✘

Subpart UU: Subpart Overview



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Test Facility

Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

Total CO₂ Received

535,686.7

Net annual mass of CO₂ received (metric tons)

Subpart UU: View Validation

Validation

FACILITY INFORMATION

Sources of CO₂ Received

CO₂ production wells, Natural gas processing, Unknown OPEN

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	✘
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	✘
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	✘
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	✘

+ ADD a Flow Meter or Container

[↑ Facility Overview](#)

Sources

Flow Meter / Container Info

Add Flow Meter / Container



Subpart UU: Add a Flow Meter /Container

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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

Net annual mass of CO₂ received (metric tons)

535,686.7

Subpart UU: View Validation

FACILITY INFORMATION

Sources of CO ₂ Received	
CO ₂ production wells, Natural gas processing, Unknown	OPEN

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	✗
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	✗
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	✗
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	✗

[+ ADD a Flow Meter or Container](#)

[Facility Overview](#)

Add Flow Meter / Container

Subpart UU: Add Flow Meter/Container Information



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Test Facility

Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#) » [Add a Flow Meter or Container](#)

FLOW METER OR CONTAINER

Use this page to uniquely identify each receiving flow meter or container. For additional information about adding and editing subpart UU flow meters and containers, please use the e-GGRT Help link(s) provided.

* denotes a required field

UNIT INFORMATION

Name or ID * (40 characters maximum)

Description (optional)

Type *

MEASUREMENT TYPE

Specify measurement type * Mass basis Volumetric basis

Subpart UU Reporting: Access Meter or Container



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OO-Supplier 1

Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

535,686.7

Net annual mass of CO₂ received (metric tons)

Subpart UU: [View Validation](#)

Confirm

FACILITY INFORMATION

Sources of CO₂ Received

CO₂ production wells, Natural gas processing, Unknown OPEN

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹	Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN ✘
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN ✘
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN ✘
TEST3	Container	Mass	185,645.9	Incomplete	OPEN ✘

+ ADD a Flow Meter or Container

↑ Facility Overview



Subpart UU: CO₂ Received Summary for a Mass Flow Meter/Container

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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview » Flow Meter Testing MFM » Eq. UU-1

NET ANNUAL MASS OF CO₂ RECEIVED

For a mass flow meter, you must calculate the total annual mass of CO₂ in a CO₂ stream received in metric tons by multiplying the mass flow by the CO₂ concentration in the flow, according to Equation UU-1.

Equation Summary (UU-1)

- Q: Quarterly Mass Received
- S: Quarterly Mass Redelivered
- C: Quarterly CO₂ Concentration

(Eq. UU-1) Annual mass of CO₂ (metric tons)

Total Annual CO₂ Received

EQUATION UU-1 SUMMARY AND RESULT

$$CO_{2,T,r} = \sum_{\mu=1}^4 (Q_{i,\mu} - S_{r,\mu}) \times C_{CO_{2,r}}$$

Hover over an element in the equation above to reveal a definition of that element.

Quarter	Q (metric tons)	S (metric tons)	C (w. %CO ₂)	Result
1				
2				
3				
4				

Quarterly Data Summary

Incomplete — View Validation

Report which CO₂ result?

- Use the calculated result rounded
- Enter my own result (value will be rounded)

FINISHED CANCEL **NEXT**

e-GGRT or own results

Equation UU-1

Subpart UU: Add Quarterly Mass of CO₂ Received Information



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Subpart UU: Injection of Carbon Dioxide (2011)
Subpart Overview » Flow Meter Testing MFM » Eq. UU-1

QUARTERLY MASS RECEIVED
Please provide the mass flow through the receiving flow meter for each quarter. For additional information about entering mass flow data, please use the e-GGRT Help link(s) provided.

- Equation Summary (UU-1)
 - Q: Quarterly Mass Received
 - S: Quarterly Mass Redelivered
 - C: Quarterly CO₂ Concentration

MASS FLOW (QUARTER 1, JANUARY TO MARCH)

Mass flow through the receiving flow meter in the quarter (metric tons)

Standard or method used to calculate the Mass flow through the receiving flow meter in the quarter

Number of days for which substitute data procedures were used to calculate the Mass flow through the receiving flow meter in the quarter (days)

Method/standard

Days of missing data

Subpart UU: Add Quarterly Mass of CO₂ Redelivered Information



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Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#) » [Flow Meter Testing MFV](#) » [Eq. UU-1](#)

QUARTERLY MASS RECEIVED THAT IS REDELIVERED

Please provide the mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well for each quarter. For additional information about entering mass flow data, please use the e-GGRT Help link(s) provided.

- Equation Summary (UU-1)
 - Q: Quarterly Mass Received
 - S: Quarterly Mass Redelivered**
 - C: Quarterly CO₂ Concentration

MASS FLOW REDELIVERED (QUARTER 1, JANUARY TO MARCH)

Mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter (metric tons)

Standard or method used to calculate the Mass flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter

Number of days for which substitute data procedures were used to calculate the Mass flow through the receiving flow meter that is (days)

Method/standard

Days of missing data

Subpart UU: Add Quarterly CO₂ Concentration Information (Weight Percent)



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Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#) » [Flow Meter 3](#) » [Eq. UU-1](#)

QUARTERLY CARBON DIOXIDE CONCENTRATION

Please provide the concentration of carbon dioxide (CO₂) in the flow meter's mass flow for each quarter. For additional information about entering concentration data, please use the e-GGRT Help link(s) provided.

- ▷ [Equation Summary \(UU-1\)](#)
 - ▷ [Q: Quarterly Mass Received](#)
 - ▷ [S: Quarterly Mass Redelivered](#)
 - ▷ [C: Quarterly CO₂ Concentration](#)

MASS CO₂ CONCENTRATION (QUARTER 1, JANUARY TO MARCH)

CO₂ concentration in the quarter (weight %CO₂ as a decimal fraction; $0 \leq x \leq 1.0$)

Standard or method used to calculate CO₂ concentration in the quarter

Were substitute data procedures used to calculate the CO₂ concentration in the quarter? Yes

Method/Std.

Missing data?

Subpart UU: CO₂ Received Summary for a Mass Flow Meter/Container



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Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#) » [Flow Meter TEST MFM](#) » [Eq. UU-1](#)

NET ANNUAL MASS OF CO₂ RECEIVED

For a mass flow meter, you must calculate the total annual mass of CO₂ in a CO₂ stream received in metric tons by multiplying the mass flow by the CO₂ concentration in the flow, according to Equation UU-1.

Equation Summary (UU 1)

- ▷ Q: Quarterly Mass Received
- ▷ S: Quarterly Mass Redelivered
- ▷ C: Quarterly CO₂ Concentration

185,645.9

[Eq. UU-1] Annual mass of CO₂ (metric tons)

EQUATION UU-1 SUMMARY AND RESULT

$$CO_{2T,r} = \sum_{p=1}^4 (Q_{r,p} - S_{r,p}) \times C_{CO_{2r}}$$

Hover over an element in the equation above to reveal a definition of that element.

Quarter	Q (metric tons)	S (metric tons)	C (wt. %CO ₂)	Result
1	46,880.2659574468	0	0.99	46,411.4632978723
2	46,880.2659574468	0	0.99	46,411.4632978723
3	46,000.2659574460	0	0.99	46,411.4632970723
4	46,880.2659574468	0	0.99	46,411.4632978723
				185,645.8531914893

Report which CO₂ result? Use the calculated result rounded (185,645.9 metric tons)

Enter my own result (value will be rounded)

FINISHED
CANCEL
NEXT →

Subpart UU: CO₂ Received Summary for a Mass Flow Meter/Container



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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview » Flow Meter TEST MFM » Eq. UU-1

NET ANNUAL MASS OF CO₂ RECEIVED

For a mass flow meter, you must calculate the total annual mass of CO₂ in a CO₂ stream received in metric tons by multiplying the mass flow by the CO₂ concentration in the flow, according to Equation UU-1.

Equation Summary (UU-1)

- ↳ Q: Quarterly Mass Received
- ↳ S: Quarterly Mass Redelivered
- ↳ C: Quarterly CO₂ Concentration

(Eq. UU-1) Annual mass of CO₂ (metric tons)

185,645.9

EQUATION UU-1 SUMMARY AND RESULT

$$CO_{2T} = \sum_{p=1}^4 (Q_{r,p} - S_{r,p}) \times C_{CO_{2r}}$$

Hover over an element in the equation above to reveal a definition of that element.

Quarter	Q (metric tons)	S (metric tons)	C (wt %CO ₂)	Result
1	46,830.2659574468	0	0.99	46,411.4632978723
2	46,830.2659574468	0	0.99	46,411.4632978723
3	46,830.2659574468	0	0.99	46,411.4632978723
4	46,830.2659574468	0	0.99	46,411.4632978723
				185,645.8531914893

Report which CO₂ result?

Use the calculated result rounded (185,645.9 metric tons)

Enter my own result (value will be rounded)

Report this value (metric tons of CO₂)

FINISHED
CANCEL
NEXT >

← Enter own result

Subpart UU Reporting: Access Meter or Container



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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

Net annual mass of CO₂ received (metric tons) **535,686.7**

Subpart UU: View Validation

FACILITY INFORMATION

Sources of CO₂ Received

CO₂ production wells, Natural gas processing, Unknown [OPEN](#)

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	

[+ ADD a Flow Meter or Container](#)

[← Facility Overview](#)



Subpart UU: CO₂ Received Summary for a Volumetric Flow Meter/Container



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Test Facility

Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#) » [Flow Meter TEST VFM](#) » [Eq. UU-2](#)

NET ANNUAL MASS OF CO₂ RECEIVED

For a volumetric flow meter, you must calculate the total annual mass of CO₂ in a CO₂ stream received in metric tons by multiplying the volumetric flow at standard conditions by the CO₂ concentration in the flow and the density of CO₂ at standard conditions, according to Equation UU-2.

Equation Summary (UU 2)

- Q: Quarterly Volume Received
- S: Quarterly Volume Redelivered
- C: Quarterly CO₂ Concentration

(Eq. UU-2) Annual mass of CO₂ (metric tons)

EQUATION UU-2 SUMMARY AND RESULTS

$$CO_{2T,r} = \sum_{p=1}^4 (Q_{r,p} - S_{r,p}) \times D \times C_{CO_2p}$$

Hover over an element in the equation above to reveal a definition of that element

Quarter	Q (standard cubic meters)	S (standard cubic meters)	C (vol. %CO ₂)	Result
1				
2				
3				
4				

Incomplete — [View Validation](#)

Report which CO₂ result?

Use the calculated result rounded

 Enter my own result (value will be rounded)

FINISHED
CANCEL
NEXT →

Density

↖

Subpart UU: Add Quarterly Volume of CO₂ Received Information



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Subpart UU: Injection of Carbon Dioxide (2011)
Subpart Overview » Flow Meter TEST VFM » Eq. UU-2

QUARTERLY VOLUME RECEIVED
Please provide the volumetric flow through the receiving flow meter for each quarter. For additional information about entering volumetric flow data, please use the e-GGRT Help link(s) provided.

- ▷ **Equation Summary (UU-2)**
 - ▷ **Q:** Quarterly Volume Received
 - ▷ **S:** Quarterly Volume Redelivered
 - ▷ **C:** Quarterly CO₂ Concentration

VOLUMETRIC FLOW (QUARTER 1, JANUARY TO MARCH)

Volumetric flow through the receiving flow meter in the quarter (standard cubic meters)

Standard or method used to calculate the Volumetric flow through the receiving flow meter in the quarter

Number of days for which substitute data procedures were used to calculate the Volumetric flow through the receiving flow meter in the quarter (days)

Method/standard

Days of missing data

Subpart UU: Add Quarterly Volume of CO₂ Redelivered Information



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Test Facility
Subpart UU: Injection of Carbon Dioxide (2011)
Subpart Overview » Flow Meter TEST VFM » Eq. UU-2

QUARTERLY VOLUME RECEIVED THAT IS REDELIVERED
Please provide the volumetric flow through the receiving flow meter that is redelivered to another facility without being injected into your well for each quarter. For additional information about entering volumetric flow data, please use the e-GGRT Help link(s) provided.

- ▷ **Equation Summary (UU-2)**
 - ▷ Q: Quarterly Volume Received
 - ▷ S: Quarterly Volume Redelivered
 - ▷ C: Quarterly CO₂ Concentration

VOLUMETRIC FLOW REDELIVERED (QUARTER 1, JANUARY TO MARCH)

Volumetric flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter (standard cubic meters)

Standard or method used to calculate the Volumetric flow through the receiving flow meter that is redelivered to another facility without being injected into your well in the quarter

Number of days for which substitute data procedures were used to calculate the Volumetric flow through the (days)

Method/standard

Days of missing data

Subpart UU: Add Quarterly CO₂ Concentration Information (Volume Percent)



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Test Facility

Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview » Flow Meter TEST VFM » Eq. UU-2

QUARTERLY CARBON DIOXIDE CONCENTRATION

Please provide the concentration of carbon dioxide (CO₂) in the flow meter's mass flow for each quarter. For additional information about entering concentration data, please use the e-GGRT Help link(s) provided.

- ▷ [Equation Summary \(UU-2\)](#)
 - ▷ [Q: Quarterly Volume Received](#)
 - ▷ [S: Quarterly Volume Redelivered](#)
 - ▷ [C: Quarterly CO₂ Concentration](#)

VOLUMETRIC CO₂ CONCENTRATION (QUARTER 1, JANUARY TO MARCH)

CO₂ concentration in the quarter (volume %CO₂ as a decimal fraction; $0 \leq x \leq 1.0$)

Standard or method used to calculate CO₂ concentration in the quarter

Were substitute data procedures used to calculate the CO₂ concentration in the quarter? Yes

Method/Std.

Missing data?

Subpart UU: CO₂ Received Summary for a Volumetric Flow Meter/Container



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Subpart UU: injection of Carbon Dioxide (2011)

Subpart Overview » Flow Meter TEST VFM » Eq. UU-2

NET ANNUAL MASS OF CO₂ RECEIVED

For a volumetric flow meter, you must calculate the total annual mass of CO₂ in a CO₂ stream received in metric tons by multiplying the volumetric flow at standard conditions by the CO₂ concentration in the flow and the density of CO₂ at standard conditions, according to Equation UU-2.

Equation Summary (UU-2)

- Q: Quarterly Volume Received
- S: Quarterly Volume Redelivered
- C: Quarterly CO₂ Concentration

97,181.5

(Eq. UU-2) Annual mass of CO₂ (metric tons)

EQUATION UU-2 SUMMARY AND RESULT

$$CO_{2,t,y} = \sum_{p=1}^4 (Q_{t,y,p} - S_{t,y,p}) \times \rho \times C_{CO_2,p}$$

Hover over an element in the equation above to reveal a definition of that element

Quarter	Q (standard cubic meters)	S (standard cubic meters)	C (vol. %CO ₂)	Result
1	13,609,404.06	0	0.904611	25,200.0722272501
2	13,107,309.32	0	0.984381	24,145.2307724181
3	13,572,072.37	0	0.98704	25,056.2128380332
4	12,337,054.75	0	0.98704	22,776.1907214271
				97,185.7065591723

Report which CO₂ result?

Use the calculated result rounded (97,186.7 metric tons)

Enter my own result (value will be rounded)

Report this value (metric tons of CO₂)

FINISHED
CANCEL
NEXT →

Subpart UU: Add Sources of CO₂ Received Information



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Test Facility

Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

Net annual mass of CO₂ received (metric tons)

Subpart UU: View Validation

FACILITY INFORMATION

Sources of CO ₂ Received	OPEN
CO ₂ production wells, Natural gas processing, Unknown	OPEN

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹	OPEN	Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	✖
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	✖
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	✖
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	✖

+ ADD a Flow Meter or Container

↑ Facility Overview

Subpart UU: Identify Sources of CO₂ Received Information



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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview » Sources of CO₂ Received

SOURCES OF CO₂ RECEIVED

Use this page to identify each source of the CO₂ received at your facility during the reporting year.

SOURCES OF CO₂ RECEIVED

Identify source(s) of CO₂ received

- CO₂ production wells
- Electric generating unit
- Ethanol plant
- Pulp and paper mill
- Natural gas processing
- Gasification operations
- Other anthropogenic source
- Discontinued enhanced oil and gas recovery project
- Unknown

CANCEL

SAVE

Subpart UU: Add Additional Flow Meters and Containers or Edit Existing Information



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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

535,686.7

Net annual mass of CO₂ received (metric tons)

!

Subpart UU: [View Validation](#)

FACILITY INFORMATION

Sources of CO₂ Received

CO₂ production wells, Natural gas processing, Unknown OPEN

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	✘
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	✘
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	✘
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	✘

+ ADD a Flow Meter or Container

↑ Facility Overview

Check

Subpart UU: QA of Reported Data



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Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#)

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

FACILITY INFORMATION

Sources of CO₂ Received

CO₂ production wells, Natural gas processing, Unknown [OPEN](#)

535,686.7

Net annual mass of CO₂ received (metric tons)

Subpart UU: View Validation

Check

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	

[+ ADD a Flow Meter or Container](#)

[← Facility Overview](#)

Subpart UU: View Validation Report



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Subpart UU: Injection of Carbon Dioxide (2011)

[Subpart Overview](#) » [Validation Report](#)

SUBPART VALIDATION REPORT

This report contains a complete set of validation messages for all data required by this Subpart. For additional information about Validation Reports, please use the e-GGRT Help link(s) provided.

Print [Print-friendly version](#)

FACILITY-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Unit Name	Message ³
No facility-level validation messages found.			

UNIT LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Unit Name	Message ³
Data Completeness	UU0010	J Test 2 Mass	Total net mass of CO2 received annually. This data element is required.
Data Completeness	UU0125	J Test 1 Volumetric	Other Standard or Method. This data element is required.
Data Completeness	UU0132	J Test 1 Volumetric	Other Standard or Method. This data element is required.
Data Completeness	UU0138	J Test 1 Volumetric	Other Standard or Method. This data element is required.
Data Completeness	UU0140	J Test 1 Volumetric	Other Standard or Method. This data element is required.
Data Completeness	UU0010	TEST VFM	Total net mass of CO2 received annually. This data element is required.
Data Completeness	UU0014	TEST VFM	Volumetric flow through the receiving flow meter in Q1. This data element is required.
Data Completeness	UU0121	TEST VFM	Volumetric flow through the receiving flow meter that is redelivered to another facility without being injected in to your well in Q1. This data element is required.
Data Completeness	UU0010	TEST3	Total net mass of CO2 received annually. This data element is required.

← Subpart Overview

Subpart UU: Return to Facility Overview



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Subpart UU: Injection of Carbon Dioxide (2011)

Subpart Overview

OVERVIEW OF SUBPART UU REPORTING REQUIREMENTS

The Injection of Carbon Dioxide (CO₂) source category comprises any well or group of wells that inject a CO₂ stream into the subsurface. If you report under subpart RR (Geological Sequestration of Carbon Dioxide (CO₂)) for a well or group of wells, you are not required to report under subpart UU for that well or group of wells. A facility that is subject to 40 CFR 98 only because it is subject to subpart UU is not required to report emissions under subpart C or any other subpart listed in 40 CFR 98.2(a)(1) or (a)(2).

For additional information about Subpart UU reporting, please use the e-GGRT Help link(s) provided.

FACILITY INFORMATION

Sources of CO ₂ Received	OPEN
CO ₂ production wells, Natural gas processing, Unknown	OPEN

FLOW METERS AND CONTAINERS

Unit Name/Identifier	Type	Measurement Basis	CO ₂ (metric tons)	Status ¹		Delete
J Test 1 Volume	Flow Meter	Volumetric	97,181.5	Incomplete	OPEN	✖
J Test 2 Mass	Flow Meter	Mass	67,213.4	Incomplete	OPEN	✖
TEST	Flow Meter	Mass	185,645.9	Complete	OPEN	✖
TEST3	Container	Mass	185,645.9	Incomplete	OPEN	✖

+ ADD a Flow Meter or Container

535,686.7

Net annual mass of CO₂ received (metric tons)

Subpart UU: View Validation

[Facility Overview](#)

Subpart A- General Information



- All must report Subpart A information:
 - NAICS codes
 - Parent Company
 - Start date and end date for report
 - Methodological changes during the year, if applicable
 - Best Available Monitoring Methods used, if applicable
 - Indicate if emissions include emissions from co-generation

Opening Subpart A



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Subpart SS Applicable Facility
e-GGRT Greenhouse Gas Data Reporting (2011)
[Select Facility](#) » [Facility or Supplier Overview](#)

FACILITY OR SUPPLIER OVERVIEW
This page allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access those data reporting screens using the OPEN buttons.
After data reporting is complete, you can initiate the annual report review and submission process from this page by using the SUBMIT button (or RESUBMIT for subsequent submissions if needed).
Facility's GHG Reporting Method: Data entry via e-GGRT web-forms ([Change](#))

CO₂ equivalent emissions (excluding biogenic) from subparts C - HH (metric tons)
Biogenic CO₂ emissions from subparts C - HH (metric tons)
CO₂ equivalent quantity from supplier categories (metric tons)
[VIEW GHG DETAILS](#)

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	OPEN
Subpart SS—Electrical Equipment Manufacturer or Refurbishment	View Messages	OPEN

[+ ADD or REMOVE Subparts](#)

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date

[GENERATE / RESUBMIT](#)

[VIEW REPORTS](#): Annual Report reviewable formats (including public, non-CBI versions and trend reports) for all submissions this reporting year can be accessed on the View Reports page.



Subpart A Screenshot



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Subpart SS Applicable Facility
Facility Reporting Information (2011)
Select Facility » Facility or Supplier Overview » Subpart A

SUBPART A – GENERAL INFORMATION
Each facility or supplier, and for each reporting year is required to supply some basic facility level information, including the entering and reporting of relevant NAICS codes and the entering and reporting of all highest-level United States parent companies.

EPA has finalized a rule that defers the deadline for reporting data elements used as inputs to emission equations for direct emitters. See 76 FR 53057 (published August 25, 2011). In accordance with the rule, e-GGRT is not currently collecting data used as inputs to emission equations.

[Subpart A: View Validation](#)

NAICS CODES

NAICS Code	Description	Relevance	Delete
No NAICS codes found.			
+ADD a NAICS Code			

U.S. PARENT COMPANIES

Parent Company	Address	% of Ownership	Delete
No parent companies found.			
+ADD a Parent Company			

GHG report start date: * 01/01/2011

GHG report end date: * 12/31/2011

Generating the Facility Annual GHG Report



Subpart PP—Suppliers of Carbon Dioxide (CO2)	View Messages	OPEN
Subpart UU—Injection of Carbon Dioxide	View Messages	OPEN

[+](#) ADD or REMOVE Subparts

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

SUBMIT ANNUAL REPORT

Report	Uploaded File Name	Status	Submitted Date	Certification Date	
					GENERATE / RESUBMIT

VIEW REPORTS: Annual Report reviewable formats (including public, non-CBI versions and trend reports) for all submissions this reporting year can be accessed on the View Reports page.

NOT SUBMITTING AN ANNUAL REPORT FOR 2011

If you are not submitting an Annual Report for this Reporting Year, please indicate why

[\(clear all\)](#)


- Not submitting until September 28, 2012:** For more information regarding who can defer reporting until September 28, 2012, please see 76 FR 73866.
- Not submitting - cessation of operations:** [98.2(i)(3)] all applicable GHG-emitting processes and operations have ceased to operate **prior** to January 1, 2011. (Do NOT select if operations ceased in 2011).
- Not submitting - operations have not yet begun:** Facility is under construction; applicable GHG-emitting processes and operations had not yet begun by December 31 of the Reporting year.
- Not submitting - Other:**

[SAVE](#)

[CANCEL](#)

Generating the Facility Annual GHG Report



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e-GGRT Help

- How to add a subpart and report data
- General reporting information
- How to submit an annual report

e-GGRT Greenhouse Gas Annual Report Submission (2011)

[Select Facility](#) » [Facility Overview](#) » **Generate and Review**

PRE-CERTIFICATION PREPARATION

Preparation includes generating then reviewing the Annual Report. When complete, you will be able to proceed to certify and submit the Annual Report.

Report	Status	Last Generated
2011 Annual Report	Not generated	

GENERATE REPORT

Generating the report may take from 1 to 10 minutes depending upon the volume of data.

Once your facility has generated a report, it is still possible to return to the data reporting screens to make changes. **Those changes, however, will not be reflected in your Annual Report until you generate it again.**

GENERATE REPORT

BACK

e-GGRT Version & Screen Code



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REGISTER A FACILITY

YOUR FACILITIES:

Facility or Supplier	Your Role
Chiu Demo Facility	DR

ACCEPT AN INVITATION:

Responding to a Facility Invitation?

Paste the Invitation Code into the field below, then click 'GO'

GO

e-GGRT Announcements

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2010.R.42 | UA1-2

Confidential Business Information



- All elements included in e-GGRT are required reporting elements, as applicable
- Data elements that have been determined to be CBI must be reported
- Data elements that have been determined to be CBI will be protected under the Clean Air Act (Sec. 114(c)) and EPA regulations (40 CFR Part 2)

Additional Resources



- GHG Reporting Program Information & Help
 - <http://www.epa.gov/ghgreporting/reporters/index.html>
 - Email: ghgreporting@epa.gov
- Subpart UU Resources
 - <http://www.epa.gov/ghgreporting/reporters/subpart/uu.html>

Questions?



- Sandbox Information & Help
 - <http://www.ccdsupport.com>
 - Email: ghgreporting@epa.gov
- Sandbox Registration & Log-In
 - <http://sandbox.ccdsupport.com>
- For more information on the other, related steps or general features of e-GGRT, please refer to the e-GGRT Overview Training Webinar on our website at www.epa.gov/ghgreporting/reporters/training/index.html