



**e-GGRT Training Webinar on  
Reporting GHG Data for Subpart S**

**U.S. Environmental Protection Agency**  
Greenhouse Gas Reporting Program (GHGRP)  
March 2012

1

Hello, and welcome to the e-GGRT training webinar on using EPA's electronic Greenhouse Gas Reporting Tool to report GHG Data for Subpart S.



**This training is provided by EPA 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.**

2

This training is provided by EPA 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.

You will see a number of e-GGRT screenshots throughout this webinar

## Webinar Outline / Overview



- General e-GGRT **2011** Reporting Overview
  - <http://www.epa.gov/ghgreporting/reporters/training/index.html>
- Data Reporting Tab
- Facility Overview
- Subpart S (without CEMS)
  - Adding Lime Products
  - Adding Lime By-Products and Wastes
  - Calculating Emissions
  - Entering Emissions into e-GGRT
- Subpart S (with CEMS)
  - Entering Emissions into e-GGRT
- Submitting Report

3

This webinar is broken into multiple sections.

First, I will walk you through the various screens of the e-GGRT system, showing you how to add information about each of your lime products, by-products, and wastes for facilities that do not have CEMS monitoring. Second, I will show you how to enter your emissions into the e-GGRT system if your facility has CEMS monitoring. Finally, I will show you how to review your information before submitting your report to EPA, as shown in previous slides.

# Click Data Reporting Tab



**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  
2011 GO

**FACILITIES REPORTING for 2011**

GHGRP ID	Facility or Supplier	Annual Report Status	Facility Overview
522947	S-Lime 1 (Apex, NC)	Not generated	<a href="#">OPEN</a>
522998	X-Petrochem Fac 1 (RTP, NC)	Not generated	<a href="#">OPEN</a>

**FACILITIES NOT REPORTING for 2011**

GHGRP ID	Facility or Supplier	Not Reporting Reason
----------	----------------------	----------------------

Footer: Paperwork Reduction Act Burden Statement | Contact Us | e-GGRT RY2011 R.19 | DR-facility-selected

# Adding Subparts



S-Lime 1 (2010)  
e-GGRT Greenhouse Gas Data Reporting  
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 upload via XML (Change)

CO<sub>2</sub> equivalent emissions (excluding biogenic) from source categories (metric tons)  
Biogenic CO<sub>2</sub> emissions from source categories (metric tons)  
CO<sub>2</sub> equivalent quantity from supplier categories (metric tons)  
VIEW GHG DETAILS

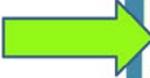
**REPORT DATA**  
2010 Reporting Source or Supplier Category Validation Messages? Subpart Reporting  
Subpart A—General Information None OPEN

**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	Sign Date	Submitted Date	View
					GENERATE / RESUBMIT



Click "ADD or REMOVE subparts" (as shown by the arrow) to select the applicable source category.

## Adding Subpart: Subpart Selection



S—Lime Manufacturing  
Description ( [SHOW](#) | [HIDE](#) )

U—Miscellaneous Uses of Carbonates  
Description ( [SHOW](#) | [HIDE](#) )

V—Nitric Acid Production  
Description ( [SHOW](#) | [HIDE](#) )

X—Petrochemical Production  
Description ( [SHOW](#) | [HIDE](#) )

Y—Petroleum Refineries  
Description ( [SHOW](#) | [HIDE](#) )

I Note: Removing (un-checking) a subpart will erase any data that has been entered for that subpart.

6

Use the checkbox to the left of the applicable source category to select or de-select the applicable source category. For a lime facility, select Subpart S, shown by the arrow. After selecting the checkbox, scroll down and click "SAVE" at the bottom of the page.

## Subpart S: Opening Subpart



S-Lime 1 (2010)  
**e-GGRT Greenhouse Gas Data Reporting**  
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 upload via XML (Change)

CO<sub>2</sub> equivalent emissions (excluding biogenic) from source categories (metric tons)  
Biogenic CO<sub>2</sub> emissions from source categories (metric tons)  
CO<sub>2</sub> equivalent quantity from supplier categories (metric tons)  
[VIEW GHG DETAILS](#)

**REPORT DATA**

2010 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	<a href="#">OPEN</a>
Subpart S—Lime Production	None	<a href="#">OPEN</a>

[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](#)

7

After adding Subpart S, you will be re-directed to the Facility Overview page, as shown by the orange circle.

Click "OPEN" to the right of Subpart S in the "REPORT DATA" section of the Facility Overview page, as shown by the arrow. I will show you how to enter the information required under Subpart S.

Subpart S: Reporting Instructions (1)

The screenshot shows the EPA's e-GGRT web interface. At the top, there is a blue header with the EPA logo and the text 'United States Environmental Protection Agency'. Below the header is a navigation bar with four tabs: 'HOME', 'FACILITY REGISTRATION', 'FACILITY MANAGEMENT', and 'DATA REPORTING'. On the left side, there is a sidebar with a green question mark icon and the text 'e-GGRT Help'. Below this, there is a link 'Using e-GGRT for Subpart S reporting' which is circled in yellow. The main content area on the right shows 'V-Facility 1 (2010)' and 'Subpart S: Lime Manufacturing'. Underneath, there is a section titled 'Subpart Overview' with the text: 'OVERVIEW OF SUBPART REPORTING REQUIREMEN Subpart S requires affected facilities to report carbon dio emissions from all lime kilns combined; CO<sub>2</sub> combustion nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) emissions from ft and CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> emissions from any other station'. The number '8' is visible in the bottom right corner of the screenshot.

You will then move to the Subpart S Subpart Overview reporting form.

On this page, we just wanted to flag some help features to keep in mind as you move forward with data entry.

On the left side in the blue side bar you will see a question mark in the left hand corner of the screen in the blue side bar along the web form. By clicking here, you can get additional help or link to Reporting Instructions for Subpart S.

## Subpart S: Reporting Instructions (2)



Home > ... > Web Forms Reporting Instructions > Subpart Reporting Instructions > Subpart S - Lime Manufacturing (non-CEMS)

**Subpart S - Lime Manufacturing (non-CEMS)**

[A printer-friendly version \(pdf\) \(18 pp., 4.491K\) of GHG reporting instructions for this subpart](#)

Please select a help topic from the list below:

- [Using e-GGRT to Prepare Your Subpart S Report](#)
  - [Subpart S Summary Facility and Emissions Information](#)
  - [Subpart S Calculated Lime Byproduct or Waste Information](#)
  - [Subpart S Lime Product Information](#)
- [Using Subpart S Calculation Spreadsheets](#)
- [Subpart S Rule Guidance](#)
- [Subpart S Rule Language \(eCFR\)](#)

Additional Resources:

- [Part 98 Terms and Definitions](#)
- [Frequently Asked Questions \(FAQs\)](#)
- [Webinar Slides](#)

This Web site is maintained by SAIC, a contractor to the U.S. Environmental Protection Agency (EY2010.R.02)

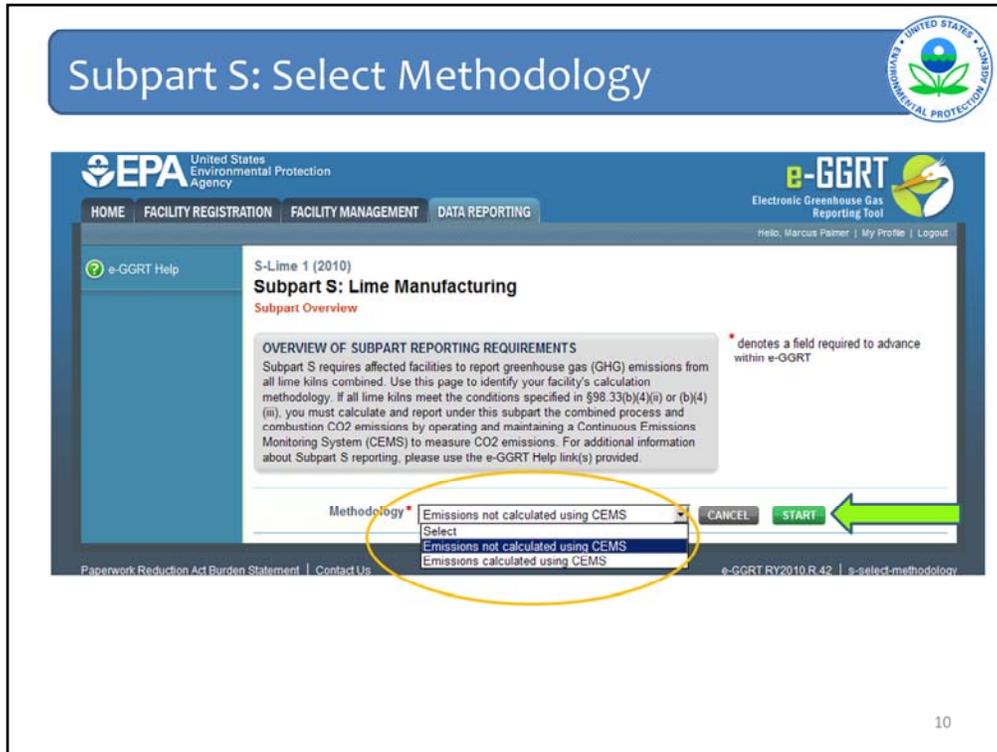
9

This webinar is designed to be a tutorial. In preparing to use the e-GGRT forms to report, you could begin by reviewing this webinar and then just walk through the Subpart S Reporting Instructions.

You should also refer to the e-GGRT Reporting Instructions if you have a specific questions about how to enter information as well.

This slide is what the Reporting Instructions screen looks like for Subpart S if you are not using CEMS. You can choose one of the three main topics:

- Using e-GGRT to Prepare Your Subpart S Report;
- Using Subpart S Calculation Spreadsheets; and
- Subpart S Rule Guidance.



If this is your first year of reporting under subpart S, clicking on the OPEN button for subpart S on the facility overview screen will take you to this page, where you choose the methodology used to calculate the greenhouse gas emissions from your lime facility. Choose the appropriate methodology from the drop-down menu (as indicated by the orange circle).

For this facility we are choosing the non-CEMS methodology.

Then click "START"

If you submitted a report in 2010, the e-GGRT system has been configured to use your 2010 reporting method as the default for 2011, and you will not see this screen.

**Subpart S: Add Lime Product**

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**  
 Subpart S requires affected facilities to report carbon dioxide (CO<sub>2</sub>) process emissions from all lime kilns combined, CO<sub>2</sub> combustion emissions from lime kilns; nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) emissions from fuel combustion at each kiln; and CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> emissions from any other stationary combustion units. First, use this page to identify each lime product produced at your facility and then enter Greenhouse gas (GHG) data required by Subpart S for each lime product and for your facility. Next, identify each calcined-lime byproduct or waste type generated at your facility and then enter GHG data required by Subpart S for each calcined-lime byproduct or waste type and for your facility. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

EPA has proposed to defer collection of 2010 data elements used as inputs to emission equations for direct reporters. (See 75 FR 81350, published Dec. 27, 2010.) E-GGRT currently reflects this proposal, and EPA will make any adjustments necessary to reflect the final rule.

Subpart S: No Validation Messages

Methodology: Emissions not calculated using CEMS [\(Change to CEMS\)](#)

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions

[OPEN](#)

**LIME PRODUCTS**

Lime Product Name	Status <sup>†</sup>	Delete
<a href="#">+ ADD a Lime Product</a>		

**CALCINED-LIME BY-PRODUCTS OR WASTE**

Calcined Lime By-Product or Waste Name	Sold or Not Sold	Status <sup>†</sup>	Delete
<a href="#">+ ADD a Calcined Lime By-Product or Waste</a>			

[← Facility Overview](#)

This is the Subpart S Overview page. Here you add all lime products, by-products, and wastes produced at your lime facility.

As you can see by the orange circle, this page also confirms that your emissions are calculated without a CEMS. If you selected this option by mistake on the previous screen, or if you switched to use a CEMS in 2011, then you would click on the “change to CEMS” link next to the orange circle to open the appropriate screens for CEMS reporting.

For now we will continue with adding information for a facility that does not use CEMS. First we will add a lime product by clicking “ADD a Lime Product”.

UNITED STATES  
ENVIRONMENTAL PROTECTION AGENCY

## Subpart S: Add Product 1



HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Hello, Marcus Palmer | My Profile | Logout

**S-Lime 1**

**Subpart S: Lime Manufacturing (2011)**

Subpart Overview » [Add/Edit Lime Type Produced](#)

**ADD/EDIT LIME TYPE PRODUCED**

Subpart S requires a facility to uniquely identify each lime product produced and to provide the information described below for each. For additional information about adding and editing a lime product, please use the e-GGRT Help link(s) provided. \* denotes a field required to advance within e-GGRT

1 → Lime Product Type

2 → Name of Product\*  (40 characters maximum)

Product Type

3 →

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2011 R.19 | s-product-1

On this screen, you select the type of lime product from the drop down box at arrow number 1. The choices in the drop down list are high calcium lime, magnesian lime, dolomitic lime, and other. If you select “other”, you will also be prompted to type in a name for the type of lime product.

Next, you add a product identifier at arrow 2. For this example, I am keeping it simple with “Product 1”. You can use any combination of letters and numbers up to 40 characters that will easily match your existing facility records.

Finally, click “SAVE” (arrow 3) to return to the Subpart Overview page.

**Subpart S: Opening Lime Product**

S-Lime 1 (2010)  
**Subpart S: Lime Manufacturing**  
 Subpart Overview

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**  
 Subpart S requires affected facilities to report carbon dioxide (CO<sub>2</sub>) process emissions from all lime kilns combined; CO<sub>2</sub> combustion emissions from lime kilns; nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) emissions from fuel combustion at each kiln; and CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> emissions from any other stationary combustion units. First, use this page to identify each lime product produced at your facility and then enter Greenhouse gas (GHG) data required by Subpart S for each lime product and for your facility. Next, identify each calcined-lime byproduct or waste type generated at your facility and then enter GHG data required by Subpart S for each calcined-lime byproduct or waste type and for your facility. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

EPA has proposed to defer collection of 2010 data elements used as inputs to emission equations for direct reporters. (See 75 FR 81350, published Dec. 27, 2010.) E-GGRT currently reflects this proposal, and EPA will make any adjustments necessary to reflect the final rule.

**Subpart S: View Validation**

Methodology: Emissions not calculated using CEMS ([Change to CEMS](#))

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions

**LIME PRODUCTS**

Lime Product Name	Status	Delete
Product 1	Incomplete	OPEN

+ ADD a Lime Product

**CALCINED-LIME BY-PRODUCTS OR WASTE**

13

As you can see by the status of “Incomplete” (in the orange circle) there is another step to complete the data entry for Product 1. Click “OPEN” to the right of the lime product (shown by the arrow) to add product-specific information by month.

## Subpart S: Monthly Information (slide 1)



S-Lime 1  
**Subpart S: Lime Manufacturing (2011)**  
Subpart Overview » Lime Product » Product 1

**LIME PRODUCT INFORMATION**  
Use this page to provide monthly information for this lime product. For additional information about entering information for lime products produced at your facility, please use the e-GGRT Help link(s) provided.

Lime Product	Product 1
Beginning of year inventory	500 (short tons)
End of year inventory	150 (short tons)

**JANUARY**

Method used to determine the quantity of Product 1 produced: Weigh feeders  Make all months same

Is the quantity of lime product produced based on substitute data?  ← 3

Method used to determine the quantity of Product 1 sold: Rail scales  Make all months same

Is the quantity of lime product sold based on substitute data?  ← 4

Standard method used to determine CaO content: ASTM C25-06  Make all months same

Is the CaO content based on substitute data?  ← 7

Standard method used to determine MgO content: ASTM C25-06  Make all months same

Is the MgO content based on substitute data?  ← 8

**FEBRUARY**

Method used to determine the quantity of Product 1 produced: Weigh feeders

14

For Product 1, add beginning and end of year inventory information in units of short tons (as shown by the larger orange circle).

The rest of the screen contains the product data elements that should be entered for each month. All months are the same, but I only included January on the slide. The information required includes:

- The methods used to determine the amount of Product 1 produced and sold during the month of January (arrows 1 and 2);
- Whether the quantities of Product 1 produced and sold for January were based on missing data procedures (arrows 3 and 4);
- The standard methods used to determine the calcium oxide and magnesium oxide content of your lime product in January (arrows 5 and 6); and
- Whether the calcium oxide or magnesium oxide contents were based on missing data procedures (arrows 7 and 8).

If any of the information you enter for January is the same for all months, you can click “Make all months same” (smaller orange circle) to the right of the applicable data element.

If the data elements from month to month are not identical, be sure to complete every month.

Scroll down the page to enter the required information for every month of the reporting year.

## Subpart S: Monthly Information (slide 2)



Is the quantity of lime product produced based on substitute data?

Method used to determine the quantity of Product 1 sold

Is the quantity of lime product sold based on substitute data?

Standard method used to determine CaO content

Is the CaO content based on substitute data?

Standard method used to determine MgO content

Is the MgO content based on substitute data?

DECEMBER

Method used to determine the quantity of Product 1 produced

Is the quantity of lime product produced based on substitute data?

Method used to determine the quantity of Product 1 sold

Is the quantity of lime product sold based on substitute data?

Standard method used to determine CaO content

Is the CaO content based on substitute data?

Standard method used to determine MgO content

Is the MgO content based on substitute data?

15

After entering information, click "SAVE" at the bottom of the screen, as shown by the arrow.

you facility. Next, identify each calcined-lime byproduct or waste type generated at your facility and then enter GHG data required by Subpart S for each calcined-lime byproduct or waste type and for your facility. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

**Subpart S: View Validation**

Methodology: Emissions not calculated using CEMS ([Change to CEMS](#))

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions

[OPEN](#)

**LIME PRODUCTS**

Lime Product Name	Status <sup>1</sup>	Delete
Product 1	Incomplete	<a href="#">OPEN</a>

[+ ADD a Lime Product](#)

**CALCINED-LIME BY PRODUCTS OR WASTE**

Calcined-Lime By Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>	Delete

[+ ADD a Calcined Lime By-Product or Waste](#)

[← Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above. (Note: if there are no validation messages for this subpart you will not see this link).

16

If you did not enter all the monthly data elements required for Product 1, you will see an exclamation point at the top of the Subpart Overview screen, as shown by the arrow. The system is telling you that there is a problem.

Click "View Validation" to list the errors found by the e-GGRT system.

## Subpart S: Validation Errors



### FACILITY VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	Facility Name	Message <sup>3</sup>
No facility validation messages found.			

### LIME PRODUCT VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	Lime Product Name	Message <sup>3</sup>
Data Completeness	S085	Product 1	Quantity of lime product produced determination method for May. This data element is required.
Data Completeness	S103	Product 1	Quantity of lime product sold determination method for February. This data element is required.
Data Completeness	S130	Product 1	CaO content determination method for June. This data element is required.
Data Completeness	S148	Product 1	MgO content determination method for December. This data element is required.

### CALCINED-LIME BY-PRODUCT VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	Calcined-Lime By-Product Name	Message <sup>3</sup>
No calcined-lime by-product validation messages found.			

[← Subpart Overview](#)

17

This is the Validation Report screen for your lime facility.

In this case, all validation messages are for Product 1 (as shown by the orange circle). The error messages (to the left of the arrow), show that I did not choose a determination method for every month. I need to add methods for February, May, June, and December.

You can correct these errors by clicking on any of the hyperlinked messages.

## Subpart S: Correcting Validation Errors



Information about entering information for lime products produced at your facility. please use the e-GGRT Help link(s) provided.

Lime Product		Product 1
Beginning of year inventory		500 (short tons)
End of year inventory		150 (short tons)

**JANUARY**

Method used to determine the quantity of Product 1 produced: Weigh feeders Make all months same

Is the quantity of lime product produced based on substitute data?

Method used to determine the quantity of Product 1 sold: Rail scales Make all months same

Is the quantity of lime product sold based on substitute data?

Standard method used to determine CaO content: ASTM C25-06 Make all months same

Is the CaO content based on substitute data?

Standard method used to determine MgO content: ASTM C25-06 Make all months same

Is the MgO content based on substitute data?

**FEBRUARY**

Method used to determine the quantity of Product 1 produced: Weigh feeders

Is the quantity of lime product produced based on substitute data?

Method used to determine the quantity of Product 1 sold: Select

Is the quantity of lime product sold based on substitute data?

18

The hyperlink takes you back to the lime product screen for Product 1. As shown by the arrow, the method used to determine the quantity of Product 1 sold during February was not selected.

To correct the validation errors, scroll down the page and select a method from every drop-down menu.

## Subpart S: Saving Corrections



Method used to determine the quantity of Product 1 sold: Rail scales

Is the quantity of lime product sold based on substitute data?

Standard method used to determine CaO content: ASTM C25-06

Is the CaO content based on substitute data?

Standard method used to determine MgO content: ASTM C25-06

Is the MgO content based on substitute data?

DECEMBER

Method used to determine the quantity of Product 1 produced: Weigh feeders

Is the quantity of lime product produced based on substitute data?

Method used to determine the quantity of Product 1 sold: Rail scales

Is the quantity of lime product sold based on substitute data?

Standard method used to determine CaO content: ASTM C25-06

Is the CaO content based on substitute data?

Standard method used to determine MgO content: ASTM C25-06

Is the MgO content based on substitute data?

19

Then click "SAVE" at the bottom of the page (as shown by the arrow) to return to the Subpart Overview page.

**Subpart S: Opening Lime Product**

S-Lime 1 (2010)  
**Subpart S: Lime Manufacturing**  
 Subpart Overview

**OVERVIEW OF SUBPART REPORTING REQUIREMENTS**  
 Subpart S requires affected facilities to report carbon dioxide (CO<sub>2</sub>) process emissions from all lime kilns combined; CO<sub>2</sub> combustion emissions from lime kilns; nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) emissions from fuel combustion at each kiln; and CO<sub>2</sub>, N<sub>2</sub>O and CH<sub>4</sub> emissions from any other stationary combustion units. First, use this page to identify each lime product produced at your facility and then enter Greenhouse gas (GHG) data required by Subpart S for each lime product and for your facility. Next, identify each calcined-lime byproduct or waste type generated at your facility and then enter GHG data required by Subpart S for each calcined-lime byproduct or waste type and for your facility. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

EPA has proposed to defer collection of 2010 data elements used as inputs to emission equations for direct reporters. (See 75 FR 81350, published Dec. 27, 2010.) E-GGRT currently reflects this proposal, and EPA will make any adjustments necessary to reflect the final rule.

Methodology: Emissions not calculated using CEMS ([Change to CEMS](#))

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions

[OPEN](#)

**LIME PRODUCTS**

Lime Product Name	Status <sup>1</sup>	Delete
Product 1	Complete	<a href="#">OPEN</a> <a href="#">✖</a>

Subpart S: No Validation Messages

20

After correcting the monthly data elements for Product 1, there are no Validation Errors, as shown by the arrow.

## Subpart S: Adding By-product or Waste



LIME PRODUCTS

Lime Product Name	Status <sup>1</sup>	Delete
Product 1	Complete	<a href="#">OPEN</a>

[+ ADD a Lime Product](#)

CALCINED-LIME BY-PRODUCTS OR WASTE

Calcined-Lime By-Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>	Delete
--	------------------	---------------------	--------

[+ ADD a Calcined Lime By-Product or Waste](#)

[← Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

21

Further down the page, you will see "ADD a Calcined Lime By-Product or Waste". Click to add a by-product.

Subpart S: Adding Sold Byproduct

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Hello, Marcus Palmer | My Profile | Logout

e-GGRT Help  
Using e-GGRT for Subpart S reporting

S-Lime 1 (2010)  
**Subpart S: Lime Manufacturing**  
Subpart Overview » [Add/Edit Lime Type Produced](#)

**ADD/EDIT CALCINED-LIME BYPRODUCT OR WASTE TYPE SOLD**  
Subpart S requires a facility to uniquely identify each calcined-lime byproduct or waste type produced and to provide the information described below for each. For additional information about adding and editing a calcined-lime byproduct or waste type, please use the e-GGRT Help link(s) provided. \* denotes a field required to advance within e-GGRT

Name of Product\*  (40 characters maximum) ← 1

Product Type Calcined Lime By-Product or Waste

Was this calcined-lime by-product or waste sold during the reporting year?  
 Yes, this calcined-lime by-product or waste was sold ← 2  
 No, this calcined-lime by-product or waste was not sold

← 3

On this screen you will be asked to name your by-product and whether the by-product was sold during the reporting year.

I used the name “BP 1” (arrow 1) but you can enter a name that makes sense for your lime facility. I also identified BP 1 as being sold by this lime facility (arrow 2).

Once you have completed both questions, click “SAVE” (arrow 3).

## Subpart S: Adding Calcined-Lime Waste



Methodology: Emissions not calculated using CEMS (Change to CEMS)

SUBPART S SUMMARY INFORMATION FOR THIS FACILITY

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions	
			<a href="#">OPEN</a>

LIME PRODUCTS

Lime Product Name	Status <sup>1</sup>		Delete
Product 1	Complete	<a href="#">OPEN</a>	
Product 2	Complete	<a href="#">OPEN</a>	

[ADD a Lime Product](#)

CALCINED LIME BY-PRODUCTS OR WASTE

Calcined Lime By Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>		Delete
BP 1	Sold	Incomplete	<a href="#">OPEN</a>	

[ADD a Calcined Lime By-Product or Waste](#)

[Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

23

Next, you open the by-product by clicking "OPEN" to the right of the by-product, as shown by the arrow. This will send you to another screen where you enter additional information.

## Subpart S: By-product Information



S-Lime 1  
**Subpart S: Lime Manufacturing (2011)**  
Subpart Overview » Calcined Lime By-Product or Waste » **BP 1**

**CALCINED-LIME BYPRODUCT OR WASTE TYPE SOLD INFORMATION**  
Use this page to provide monthly information for this byproduct or waste type that is sold by your facility. For additional information about entering information for calcined-lime byproduct or waste types that are sold, please use the e-GGRT Help link(s) provided.

Calcined Lime By-Product or Waste **BP 1**

Beginning of year inventory	0 (short tons)
End of year inventory	1500 (short tons)

JANUARY

Method used to determine the quantity of calcined-lime BP 1 sold: Weigh feeders  Make all months same

Is the quantity of BP 1 sold based on substitute data?

Standard method used to determine the CaO content: ASTM C25-06  Make all months same

Is your reported CaO content based on substitute data?

Standard method used to determine the MgO content: ASTM C25-06  Make all months same

Is your reported MgO content based on substitute data?

FEBRUARY

24

Then you enter the same type of information for your by-product BP 1 that you added for your lime product, including beginning and end of year inventory, and information about determination methods and the use of missing data procedures.

Scroll down the page and fill in the information for all months.

Then click "SAVE" at the bottom of the page.

## Subpart S: By-product that is not sold



Methodology: Emissions not calculated using CEMS (Change to CEMS)

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions	OPEN

**LIME PRODUCTS**

Lime Product Name	Status <sup>1</sup>	OPEN	Delete
Product 1	Complete	OPEN	✖
Product 2	Complete	OPEN	✖

+ ADD a Lime Product

**CALCINED-LIME BY-PRODUCTS OR WASTE**

Calcined-Lime By-Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>	OPEN	Delete
BP 1	Sold	Complete	OPEN	✖
BP 2	Not Sold	Complete	OPEN	

+ ADD a Calcined Lime By-Product or Waste

25

I have skipped ahead a bit by adding another product, Product 2, and another by-product, BP 2.

Unlike BP 1, BP 2 is not sold by the lime facility. If a by-product or waste is not sold, there is a bit less information to add than for by-products or wastes that are sold.

Click "OPEN" to the right of the by-product that is not sold, as shown by the arrow, to see what information is required.



## Subpart S: Information for by-products not sold

S-Lime 1 (2010)

### Subpart S: Lime Manufacturing

[Subpart Overview](#) » [Calcined Lime By-Product or Waste](#) » **BP 2**

**CALCINED-LIME BYPRODUCT OR WASTE TYPE GENERATED BUT NOT SOLD INFORMATION**

Use this page to provide the information for this byproduct or waste type that is generated but not sold by your facility. For additional information about entering information for calcined-lime byproduct or waste types that are generated but not sold, please use the e-GGRT Help link(s) provided.

Calcined Lime By-Product or Waste	BP 2
Is the quantity of BP 2 not sold based on substitute data?	<input type="checkbox"/>
Is your reported CaO content of BP 2 not sold based on substitute data?	<input type="checkbox"/>
Is your reported MgO content of BP 2 not sold based on substitute data?	<input type="checkbox"/>



26

For BP 2, select the appropriate checkboxes, concerning missing data procedures. Click the first box if the quantity of BP 2 not sold is based on missing data procedures; the second box if the calcium oxide content is based on missing data procedures; and the third box if the magnesium oxide content is based on missing data procedures. If no missing data procedures were used for BP 2, leave the checkboxes blank, as shown. When finished, click "SAVE," as shown by the arrow.

## Subpart S: Lime Wastes



Methodology: Emissions not calculated using CEMS ([Change to CEMS](#))

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions

[OPEN](#)

**LIME PRODUCTS**

Lime Product Name	Status <sup>1</sup>	Delete
Product 1	Complete	<a href="#">OPEN</a>
Product 2	Complete	<a href="#">OPEN</a>

[+ ADD a Lime Product](#)

**CALCINED-LIME BY-PRODUCTS OR WASTE**

Calcined Lime By-Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>	Delete
BP 1	Sold	Complete	<a href="#">OPEN</a>
BP 2	Not Sold	Complete	<a href="#">OPEN</a>
W-1	Not Sold	Complete	<a href="#">OPEN</a>

[+ ADD a Calcined Lime By-Product or Waste](#)

[← Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

27

Wastes are entered in the same way as by-products.

As shown by the orange circle, I have added an un-sold waste, named W-1.

These are all the products, by-products, and wastes produced by my fictional lime facility.

## Subpart S: Facility Summary Information



Methodology: Emissions not calculated using CEMS ([Change to CEMS](#))

**SUBPART S SUMMARY INFORMATION FOR THIS FACILITY**

Lime Production Capacity (tons)	CO <sub>2</sub> used on-site	CO <sub>2</sub> Process Emissions	
			<a href="#">OPEN</a>

**LIME PRODUCTS**

Lime Product Name	Status <sup>1</sup>		Delete
Product 1	Complete	<a href="#">OPEN</a>	
Product 2	Complete	<a href="#">OPEN</a>	

[+ ADD a Lime Product](#)

**CALCINED-LIME BY-PRODUCTS OR WASTE**

Calcined Lime By-Product or Waste Name	Sold or Not Sold	Status <sup>1</sup>		Delete
BP 1	Sold	Complete	<a href="#">OPEN</a>	
BP 2	Not Sold	Complete	<a href="#">OPEN</a>	
W-1	Not Sold	Complete	<a href="#">OPEN</a>	

[+ ADD a Calcined Lime By-Product or Waste](#)

[← Facility Overview](#)

<sup>1</sup>A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness validation messages in your Validation Report by clicking the "View Validation" link above (Note: if there are no validation messages for this subpart you will not see this link).

28

Next click "OPEN" under "SUBPART S SUMMARY INFORMATION FOR THIS FACILITY" (as indicated by the arrow) to enter production capacity, the amount of CO<sub>2</sub> used on-site, and the total amount of CO<sub>2</sub> emitted from all products, by-products, and wastes at this lime facility.

## Subpart S: Emissions Summary



S-Lime 1  
**Subpart S: Lime Manufacturing (2011)**  
Subpart Overview » Subpart S Summary Information

**EQ. S-4: FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION**  
Subpart S requires a facility to report the facility and emissions information described below. For additional information about the facility information required by Subpart S, please use the e-GGRT Help link(s) provided.

(Eq. S-4) Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons/year) **0.0**

**EQUATION S-4 SUMMARY AND RESULT**

$$E_{CO_2} = \sum_{i=1}^1 \sum_{n=1}^{12} (EF_{lime,i,n} \times M_{lime,i,n}) + \sum_{i=1}^b \sum_{n=1}^{12} (EF_{ind,i,n} \times M_{ind,i,n}) + \sum_{i=1}^z E_{waste,i}$$

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

**3** → emissions from lime production from all kilns (metric tons) Use Subpart S equation spreadsheets to calculate → **2**

**ADDITIONAL EMISSIONS DATA**

Annual lime production capacity for the entire facility  (short tons)

Was CO<sub>2</sub> used on site?  Yes  No

29

The next page is the Subpart S Summary Information page. “EQUATION S-4 SUMMARY AND RESULT” has three separate steps.

First (arrow 1), you can view Equation S-4 from Subpart S.

Second (arrow 2), you have the option to download multiple Subpart S worksheets to assist you in calculating the emissions from this facility.

Third (arrow 3), you enter the CO<sub>2</sub> process emissions from your lime facility.

For the first step, you can refresh your memory of the equation used to calculate the CO<sub>2</sub> emissions from your lime facility.

## Subpart S: Download worksheets



S-Lime 1  
**Subpart S: Lime Manufacturing (2011)**  
Subpart Overview » Subpart S Summary Information

**EQ. S-4: FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION**

Subpart S requires a facility to report the facility and emissions information described below. For additional information about the facility information required by Subpart S, please use the e-GGRT Help link(s) provided.

(Eq. S-4) Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons/year)

0.0

**EQUATION S-4 SUMMARY AND RESULT**

$$E_{CO_2} = \sum_{i=1}^1 \sum_{n=1}^{12} (EF_{lime,i,n} \times M_{lime,i,n}) + \sum_{i=1}^b \sum_{n=1}^{12} (EF_{ind,i,n} \times M_{ind,i,n}) + \sum_{i=1}^z E_{waste,i}$$

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

Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons)  
Use Subpart S equation spreadsheets to calculate.

**ADDITIONAL EMISSIONS DATA**

Annual lime production capacity for the entire facility (short tons)

Was CO<sub>2</sub> used on site?  
 Yes  
 No

CANCEL SAVE

Use the OPTIONAL e-GGRT Calculation Worksheet to calculate the Equation Result that is entered here. Inputs to emission equations for direct reporters are not currently collected by e-GGRT (76 FR 53057 August 25, 2011)

30

The second step is for downloading the equation worksheets for subpart S by clicking on “Use Subpart S equation worksheets to calculate.”

These optional worksheets are provided to assist reporters in calculating emissions and in keeping records of these calculations. Reporters are required to keep records of these calculations under 40 CFR 98.3(g) and additional subpart-specific provisions, but are not required to use these worksheets or to submit any worksheets to EPA. Worksheets may include inputs to emission equations, reporting of which EPA has currently deferred (76 FR 53057 published August 25,).

For Subpart S, there are four separate worksheets that correspond to the four equations in Subpart S: S-1, S-2, S-3, and S-4. I will show S-1 in the next few slides as an example.

## Calculation Spreadsheets, CBI and Inputs



- All elements included in e-GGRT are required reporting elements, as applicable
- E-GGRT currently reflects the rule deferring reporting of inputs to emission equations that was signed by the Administrator on August 19, 2011. A link to the final rule can be found at the GHG Reporting Program Website: <http://www.epa.gov/ghgreporting/reporters/cbi/index.html>
- Data elements that have been determined to be CBI must be reported
- Reporting 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)

31

Please note that if you used the Optional Calculation Spreadsheets for 2010 reporting, those spreadsheets may have change since then – be sure to download the most recent version of the spreadsheets from the Subpart S e-GGRT Help site.

E-GGRT currently reflects the rule deferring reports of inputs to emission equations for direct emitters.

The inputs of the equation are NOT currently collected by e-GGRT. This means that in certain web forms in e-GGRT, you can view a required equation, but you will only enter the RESULT of that equation into e-GGRT.

EPA is providing OPTIONAL calculation spreadsheets that you can use to perform the calculations called for in the emission equations. These Microsoft Excel spreadsheets can be downloaded and opened on your own computer. Just click the hyperlink on the web-form to view and download the appropriate calculation spreadsheet for the equation you are working on. You can enter the data, including equation inputs, necessary to perform the calculation for the equation, and the spreadsheets will calculate the result for you. Once you have calculated the result, enter the result on to the e-GGRT web form.

E-GGRT will NOT collect the calculation spreadsheets and you do NOT need to submit them outside of e-GGRT. The use of these calculation spreadsheets is voluntary. The spreadsheets are meant to support reporters as they complete the e-GGRT online reporting process. You do not need to use EPA's spreadsheets to perform the calculations for the emissions equations, but you do need to keep records of these calculations (under 40 CFR 98.3(g) and additional subpart-specific provisions). Whether or not you use the calculation spreadsheets provided by EPA. If you do not use the spreadsheets, you may choose to maintain copies to help meet your record-keeping requirements.

# Subpart S: Equation S-1 Worksheet (slide 1)



Subpart S - Lime Manufacturing			
Calculating CO <sub>2</sub> Emission Factors for Lime Type Using Equation S-1			
General Information			
Facility Name:	Sublime Lime Company		
Reporter Name:	Jordan Catalano		
Unit Name/ ID:	Product 1		
Reporting Period:	2010		
Comments:			
Unit Type:	Lime manufacturing kilns		
S-1 Input Data			
Month	[CaO <sub>n,i</sub> ] = Calcium oxide content for lime type i, for month n, determined according to §98.194(c) (metric tons CaO/metric ton lime)	[MgO <sub>n,i</sub> ] = Magnesium oxide content for lime type i, for month n, determined according to §98.194(c) (metric tons MgO/metric ton lime)	
January	0.75	0.02	
February	0.68	0.05	
March	0.59	0.07	
April	0.89	0.1	
May	0.92	0.3	
June	0.62	0.4	
July	0.89	0.01	
August	0.98	0.2	
September	0.78	0.08	
October	0.65	0.09	
November	0.85	0.11	
December	0.68	0.15	

This is the first half of the S-1 worksheet. This is for entering information about each of your lime products. This screenshot contains calcium oxide and magnesium oxide values for Product 1 for each month of the reporting year.

## Subpart S: Equation S-1 Worksheet (slide 2)



A	B	C	D
30			
31	<b>S-1 Constants</b>		
32	[2000/2205] = Conversion factor for tons to metric tons	2000/2205	
33	[SR <sub>CaO</sub> ] = Stoichiometric ratio of CO <sub>2</sub> and CaO for calcium carbonate [see Table S-1 of this subpart] (metric tons CO <sub>2</sub> /metric tons CaO)	0.7848	
34	[SR <sub>MgO</sub> ] = Stoichiometric ratio of CO <sub>2</sub> and MgO for magnesium carbonate [see Table S-1 of this subpart] (metric tons CO <sub>2</sub> /metric tons MgO)	1.0918	
35			
36			
37	<b>S-1 Results</b>		
38	Month	[EF <sub>Lime,i,n</sub> ] = Emission factor for lime type i, for month n (metric tons CO <sub>2</sub> /ton lime)	
39	January	0.5537	
40	February	0.5336	
41	March	0.4893	
42	April	0.7326	
43	May	0.9520	
44	June	0.8375	
45	July	0.6434	
46	August	0.8957	
47	September	0.6345	
48	October	0.5518	
49	November	0.7140	
50	December	0.6326	
51			

33

This is the second half of the S-1 worksheet. This screen contains the constants used by Equation S-1 and the emission factors by month for Product 1.

S-1 contains information for lime products, S-2 contains information for by-products or wastes that are sold, S-3 contains information for by-products or wastes that are not sold. These three worksheets generate results that are entered into worksheet S-4. S-4 calculates the total emissions from the lime facility. The three worksheets are similar in design to S-1.

## Subpart S: Enter Emissions Data



S-Lime 1  
**Subpart S: Lime Manufacturing (2011)**  
Subpart Overview » Subpart S Summary Information

**EQ. S-4: FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION**  
Subpart S requires a facility to report the facility and emissions information described below. For additional information about the facility information required by Subpart S, please use the e-GGRT Help link(s) provided.

112964.0  
(Eq. S-4) Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons/year)

**EQUATION S-4 SUMMARY AND RESULT**

$$E_{CO_2} = \sum_{i=1}^1 \sum_{n=1}^{12} (EF_{lime,i,n} \times M_{lime,i,n}) + \sum_{i=1}^b \sum_{n=1}^{12} (EF_{ind,i,n} \times M_{ind,i,n}) + \sum_{i=1}^z E_{site,i}$$

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

3 Annual CO<sub>2</sub> process emissions from lime production from all kilns 112964 (metric tons)  
Use Subpart S equation spreadsheets to calculate

**ADDITIONAL EMISSIONS DATA**  
Annual lime production capacity for the entire facility  
Was CO<sub>2</sub> used on site?  Yes  No

CANCEL SAVE

34

After calculating the total CO<sub>2</sub> emissions from your lime facility, complete the third step of the Subpart S Summary Information page. Enter the total CO<sub>2</sub> emissions into the red cell indicated near the middle of this screen.

## Subpart S: Additional Emissions Data



S-Lime 1  
**Subpart S: Lime Manufacturing (2011)**  
Subpart Overview » Subpart S Summary Information

**EQ. S-4: FACILITY-LEVEL CO<sub>2</sub> PROCESS EMISSIONS AND ADDITIONAL EMISSIONS INFORMATION**  
Subpart S requires a facility to report the facility and emissions information described below. For additional information about the facility information required by Subpart S, please use the a-GGRT Help link(s) provided.

(Eq. S-4) Annual CO<sub>2</sub> process emissions from lime production from all kilns (metric tons/year) **112964.0**

**EQUATION S-4 SUMMARY AND RESULT**

$$E_{CO_2} = \sum_{i=1}^I \sum_{n=1}^{12} (EF_{lime,i,n} \times M_{lime,i,n}) + \sum_{i=1}^I \sum_{n=1}^{12} (EF_{kiln,i,n} \times M_{kiln,i,n}) + \sum_{i=1}^I E_{waste,i}$$

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

Annual CO<sub>2</sub> process emissions from lime production from all kilns **112964** (metric tons)  
Use Subpart S equation spreadsheets to calculate

**ADDITIONAL EMISSIONS DATA**

Annual lime production capacity for the entire facility  (short tons) ← **1**

Was CO<sub>2</sub> used on site?  Yes  No ← **2**

← **3**

35

The remaining parts of this page pertain to the entire lime facility. Enter the lime production capacity (arrow 1) and whether CO<sub>2</sub> was used on-site (arrow 2). If you indicate that CO<sub>2</sub> was used on-site, two additional boxes will open for you to enter the amount used and the method you used to determine the amount. When you have entered all of the data, click "SAVE" (arrow 3).

**Subpart S: Lime Facility with CEMS**

S-C-CEMS-Lime 2 (2010)

**eGRID Greenhouse Gas Data Reporting**

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 upload via XML (Change)

CO<sub>2</sub> equivalent emissions (excluding biogenic) from source categories (metric tons)

Biogenic CO<sub>2</sub> emissions from source categories (metric tons)

CO<sub>2</sub> equivalent quantity from supplier categories (metric tons)

VIEW GHG DETAILS

**REPORT DATA**

2010 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	None	OPEN
Subpart S—Lime Production	None	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

36

Now we will go through procedures for a lime facility that is equipped with CEMS monitoring.

I created a new facility to use as an example (shown by the orange circle).

To go through the different steps for the CEMS methodology, click “OPEN” to the right of Subpart S, as shown by the arrow.

## Subpart S: CEMS Methodology



Hello, Marcus Palmer | My Profile | Logout

S-C-CEMS-Lime 2 (2010)

### Subpart S: Lime Manufacturing

[Subpart Overview](#)

#### OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart S requires affected facilities to report greenhouse gas (GHG) emissions from all lime kilns combined. Use this page to identify your facility's calculation methodology. If all lime kilns meet the conditions specified in §98.33(b)(4)(ii) or (b)(4)(iii), you must calculate and report under this subpart the combined process and combustion CO<sub>2</sub> emissions by operating and maintaining a Continuous Emissions Monitoring System (CEMS) to measure CO<sub>2</sub> emissions. For additional information about Subpart S reporting, please use the e-GGRT Help link(s) provided.

\* denotes a field required to advance within e-GGRT

Methodology\*

- Emissions calculated using CEMS
- Select
- Emissions not calculated using CEMS
- Emissions calculated using CEMS

CANCEL

START



[Load Statement](#) | [Contact Us](#)

e-GGRT RY2010.R.42 | s-select-methodology

37

Choose the CEMS methodology, as shown by the orange circle, and click "START," as shown by the green arrow.

## Subpart S: Download Reporting Form



SUBPART S SUMMARY INFORMATION FOR THIS FACILITY

Methodolog: Emissions calculated using CEMS (Change to NON-CEMS)

---

1.) DOWNLOAD FORM  
[Subpart S GHG Reporting](#)

---

2.) UPLOAD COMPLETED FORM

⚠ 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. If you choose to report these inputs to EPA through these simplified reporting pages, please note that the inputs may be subject to public release.

Uploaded File Name	Attached By	Date	Delete
No files found.			

---

3.) ENTER GHG DATA

Annual CO<sub>2</sub> mass emissions  (metric tons)

Annual CH<sub>4</sub> mass emissions  (metric tons)

Annual N<sub>2</sub>O mass emissions  (metric tons)

As shown by the orange circle, this page verifies that your facility has emissions monitored using a CEMS.

Click “Subpart S GHG Reporting” (as shown by the arrow) to download a worksheet for reporting the CEMS data associated with this lime facility. This is a link to the reporting form that is discussed in the general e-GGRT overview webinar slides.

# Subpart S: Download Reporting Form



## Step 1. Download a Reporting Form

To download the reporting form(s) for a subpart:

1. Find the subpart in the table below
2. Click the linked filename(s) in the second column
3. Save the file(s) to your computer in a location of your choosing
4. If your facility uses CEMS to calculate emissions under this subpart, you must also download a separate CEMS Reporting Form by clicking the CEMS Reporting Form.xls link at the bottom of the table
5. Repeat 1-4 for each applicable subpart (note that multiple Reporting Forms are required for Subparts O and OO)

Subpart	Reporting Forms (click to download)
E - Adipic Acid Production	<a href="#">Subpart E Reporting Form.xls</a>
F - Aluminum Production	<a href="#">Subpart F Reporting Form.xls</a>
O - HCFC-22 Production and HFC-23 Destruction	<a href="#">Subpart O Reporting Form.xls</a> <a href="#">Subpart O Reporting Form ONE TIME REPORT final.xls</a>
R - Lead Production	<a href="#">Subpart R Reporting Form.xls</a>
S - Lime Manufacturing (CEMS only)	<a href="#">Subpart S Reporting Form (CEMS only).xls</a>
U - Miscellaneous Uses of Carbonate	<a href="#">Subpart U Reporting Form.xls</a>
V - Nitric Acid Production	<a href="#">Subpart V Reporting Form.xls</a>
Z - Phosphoric Acid Production	<a href="#">Subpart Z Reporting Form.xls</a>
BB - Silicon Carbide Production	<a href="#">Subpart BB Reporting Form.xls</a>
CC - Soda Ash Manufacturing	<a href="#">Subpart CC Reporting Form.xls</a>
EE - Titanium Dioxide Production	<a href="#">Subpart EE Reporting Form.xls</a>
GG - Zinc Production	<a href="#">Subpart GG Reporting Form.xls</a>
OO - Suppliers of Industrial GHG	<a href="#">Subpart OO Reporting Form for Producers.xls</a> <a href="#">Subpart OO Reporting Form for Importers and Exporters.xls</a> <a href="#">Subpart OO Reporting Form For Producers or Importers of F-GHGs that Destroy F-GHGs ONE TIME REPORT final.xls</a> <a href="#">Subpart OO Reporting Form For Facilities that Produce F-GHGs ONE TIME REPORT final.xls</a>
<b>Additional Reporting Forms</b>	<b>Reporting Forms (click to download)</b>
CEMS	<a href="#">CEMS Reporting Form.xls</a>

Remember to download both forms

Once all applicable Reporting Forms have been saved to your computer, open each file and enter the required information according to the general help provided below and the instructions provided within each Reporting Form. Always remember to save each completed Reporting Form when finished.

This screen shows the page you will then be directed to within e-GGRT Help to download the required reporting forms.

You will need to download both the Subpart S-Lime Manufacturing (CEMS only) form and the additional CEMS Reporting form.



## Subpart S: Upload GHG Reporting Form



SUBPART S SUMMARY INFORMATION FOR THIS FACILITY

Methodology: Emissions calculated using CEMS (Change to NON-CEMS)

1.) DOWNLOAD FORM  
Subpart S GHG Reporting

2.) UPLOAD COMPLETED FORM

**!** 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. If you choose to report these inputs to EPA through these simplified reporting pages, please note that the inputs may be subject to public release.

Uploaded File Name	Attached By	Date	Delete
No files found.			

3.) ENTER GHG DATA

Annual CO<sub>2</sub> mass emissions  (metric tons)  
Annual CH<sub>4</sub> mass emissions  (metric tons)  
Annual N<sub>2</sub>O mass emissions  (metric tons)

[Facility Overview](#)

41

After clicking “Browse,” (as shown by the orange circle) choose the file “Subpart S GHG Reporting” from your computer and then click “UPLOAD” as indicated by the arrow.

You will also need to upload the CEMS form for your facility.

**Subpart S: Enter CEMS Data**

Methodology: Emissions calculated using CEMS (Change to NON-CEMS)

1.) DOWNLOAD FORM  
 Subpart S GHG Reporting

2.) UPLOAD COMPLETED FORM  
 Browse... UPLOAD

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. If you choose to report these inputs to EPA through these simplified reporting pages, please note that the inputs may be subject to public release.

Uploaded File Name	Attached By	Date	Delete
Subpart S Reporting Form (CEMS only).xls	Marcus Palmer	February 28, 2012	✖

3.) ENTER GHG DATA

Annual CO<sub>2</sub> mass emissions  (metric tons) **1**

Annual CH<sub>4</sub> mass emissions  (metric tons)

Annual N<sub>2</sub>O mass emissions  (metric tons)

**3** Facility Overview **SAVE** **2**

This page now shows your uploaded file (shown in the orange circle).

Enter the total CO<sub>2</sub> emissions from your CEMS (arrow 1) and click “SAVE” at the bottom of the page (arrow 2).

IF the CEMS is also monitoring combustion emissions from the kiln – you should be entering the combined process and combustion CO<sub>2</sub> along with the combustion related CH<sub>4</sub> and N<sub>2</sub>O emissions from the kiln.

After clicking “SAVE,” click “Facility Overview” (arrow 3) to return to the Facility Overview page.

## Subpart S: Check Facility Overview page



S-Lime 1

### 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](#))

CO<sub>2</sub> equivalent emissions (excluding biogenic) from subparts C - HH (metric tons) **112,964.0**

Biogenic CO<sub>2</sub> emissions from subparts C - HH (metric tons) **0.0**

CO<sub>2</sub> 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	<a href="#">View Messages</a>	<a href="#">OPEN</a>
Subpart C—General Stationary Fuel Combustion Sources	<a href="#">View Messages</a>	<a href="#">OPEN</a>
Subpart S—Lime Production	<a href="#">View Messages</a>	<a href="#">OPEN</a>

[+](#) 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

43

After completing the process for your lime facility, this is the top half of the Facility Overview.

This screen shows the total CO<sub>2</sub> equivalent emissions from your lime facility (as shown by the arrow). Check that this total is correct for your lime facility and scroll down the screen.

## Subpart S: Submit Report



E-Form 1  
**e-GGRT Greenhouse Gas Data Reporting (2011)**  
Select Facility • Facility or Supplier Overview

**FACILITY OR SUPPLIER OVERVIEW**  
The app allows you to add the source and/or supplier categories for which your facility or supplier will be reporting, then to access these 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)

CO <sub>2</sub> equivalent emissions (including imports) from subparts C, H&I (metric tons)	112,264.0
Stationary CO <sub>2</sub> emissions from subparts C, H&I (metric tons)	0.0
CO <sub>2</sub> equivalent credits from supplier categories (metric tons)	0.0

Your eGRT ID: 1414

**REPORT DATA**

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	<b>OPEN</b>
Subpart C—General Stationary Fuel Combustion Sources	View Messages	<b>OPEN</b>
Subpart G—Lime Production	View Messages	<b>OPEN</b>

ADD or REMOVE Subjects

If all subjects 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	
					<b>GENERATE THE REPORT</b>

**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 delay reporting until September 28, 2012, please see 40 CFR 7006.
- Not submitting - cessation of operations. (40 CFR 7002) at applicable GHG emitting processes and operations have ceased to operate prior to January 1 of the Reporting Year.
- 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. (40 CFR 7002)

SAVE CANCEL



Now you will submit your report by clicking “GENERATE / RESUBMIT” using the procedures mentioned earlier in the webinar.

## Subpart S: Confirmation of Submittal



Generate and Review    Certify and Send    **Confirmation**

S-Lime 1  
**e-GGRT Greenhouse Gas Annual Report Submission (2011)**  
Select Facility » Facility Overview » Confirmation

**SUCCESS!**  
Your facility's annual GHG report has been successfully submitted to EPA and certified. The facility's representatives and agents will receive an email confirmation.

[Print-friendly version](#) 

ANNUAL REPORT SUBMISSION

Facility Name	S-Lime 1
Address	800 Sublime Street Apex NC 27502
Reporting Year	2011
Submitted Date	Wed Feb 29 18:23:48 EST 2012
Certification Date	Wed Feb 29 18:24:38 EST 2012
Submitted By	Palmer, Marcus
Confirmation Number	5161-3101

 [HOME](#)

45

When you have successfully submitted your CO<sub>2</sub> emissions into the e-GGRT system, you will see this confirmation screen.

“Your facility’s annual report has been successfully submitted to EPA. The facility’s representatives and agents will receive an email.”

Click “HOME” to return to the Facility Overview page.

## Subpart S: Final Facility Overview page



**REPORT DATA**

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Subpart A—General Information	View Messages	<a href="#">OPEN</a>
Subpart C—General Stationary Fuel Combustion Sources	None	<a href="#">OPEN</a>
Subpart S—Lime Production	View Messages	<a href="#">OPEN</a>

[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	
2011 Annual Report v1		Complete, certified and sent	02/29/2012 6:23 PM	02/29/2012 6:24 PM	<a href="#">HTML</a>   <a href="#">XML</a>   <a href="#">Receipt</a>

[GENERATE / RESUBMIT](#)

**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 70 FR 73806.
- Not submitting - cessation of operations:** [98.20)(3)] all applicable GHG-emitting processes and operations have ceased to operate prior to January 1 of the Reporting Year.
- 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](#)

46

This is the bottom half of the Facility Overview screen. As shown under “SUBMIT ANNUAL REPORT” (shown by the orange circle) you can see when your report was submitted and certified. You can view your report in XML format or HTML format and you can review your Receipt.

Click “SAVE” as shown by the arrow.

If you need to change data that you have already submitted and the final submittal date of April 2, 2012 has not passed, go through the entry screens and change the necessary information. After completing your changes, click “GENERATE/RESUBMIT” to resubmit your report with the new information. Then you can recertify and submit your report.

## Questions?



- e-GGRT Information & Help
  - <http://www.ccdsupport.com>
  - Email: [GHGreporting@epa.gov](mailto:GHGreporting@epa.gov)
- GHG Reporting Program Information & Help
  - [www.epa.gov/ghgreporting/reporters/index.html](http://www.epa.gov/ghgreporting/reporters/index.html)
  - Email: [ghgreporting@epa.gov](mailto:ghgreporting@epa.gov)
- Read more about XML Upload Option
  - [http://www.epa.gov/ghgreporting/reporters/datasystem/e-ggert\\_xml.html](http://www.epa.gov/ghgreporting/reporters/datasystem/e-ggert_xml.html)

47

We hope this overview has provided you greater familiarity with navigating and entering information using the e-GGRT reporting tool.

**Here are some additional links.**