

Using e-GGRT to Prepare Your Subpart E Report

Subpart E consists of all adipic acid production facilities that use oxidation to produce adipic acid.

This page provides an overview of subtopics that are central to Subpart E reporting. This information is entered from the e-GGRT Subpart E Overview web form shown below. Each topic represents a key web form(s) where you need to enter information:

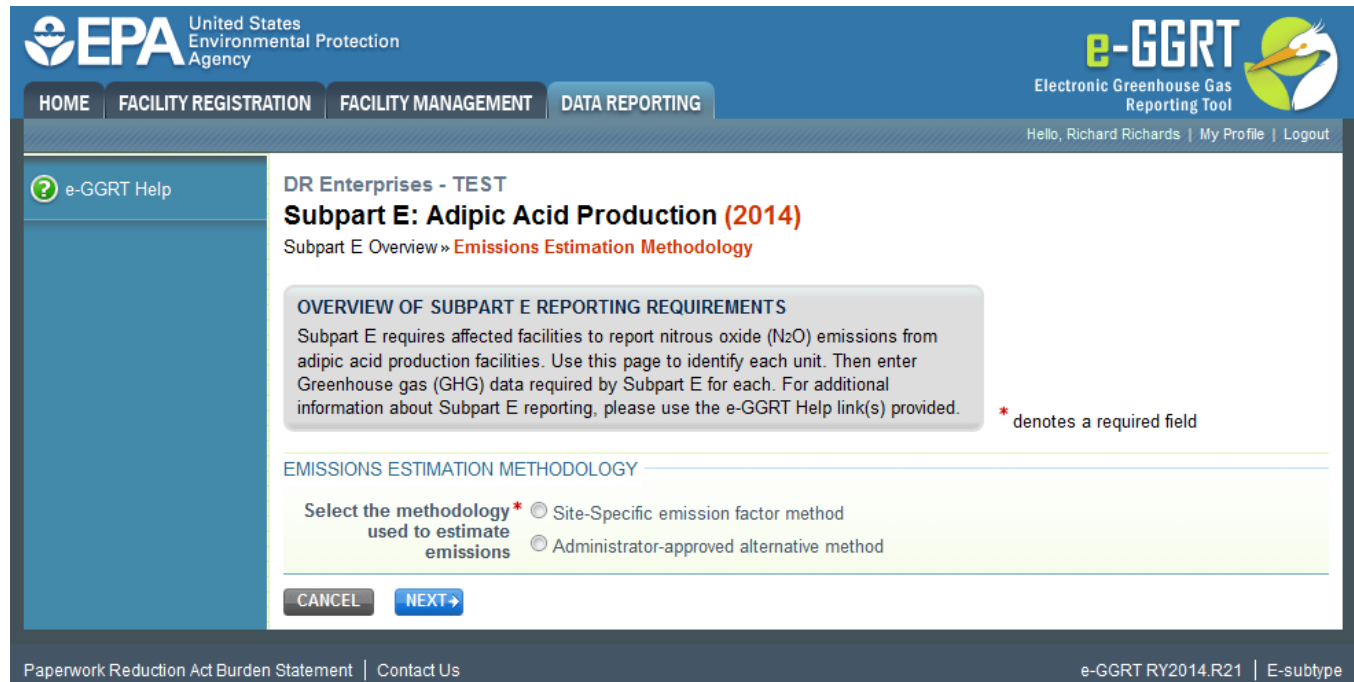
- [Subpart E Estimation Methodology](#)
- [Subpart E Unit Information for the Site-Specific Emission Factor and Production Data Method](#)
- [Subpart E Unit Information for an Administrator-Approved Alternative Method](#)
- [Subpart E Summary Information for the Site-Specific Emission Factor and Production Data Method](#)
- [Subpart E Summary Information for an Administrator-Approved Alternative Method](#)

If you reported for the previous reporting year, the Agency has carried some of your data from last year into the current reporting year to reduce the reporting burden. It is still your responsibility to review and ensure that all of the information in your submission is correct, but the Agency believes that most of the data that is carried forward is unlikely to change significantly from year to year. For more information about carry forward data, please see the Carry forward of data from previous submissions help content

Subpart E Estimation Methodology

To start entering data for subpart E, click OPEN in the row for this subpart in the REPORT DATA table on the Facility or Supplier Overview page. This action will open the Emissions Estimation Methodology page.

>> [Click this link to expand](#)



Select the methodology used to estimate emissions from the following options:

- Site-Specific emission factor method
- Administrator-approved alternative method

If Administrator-approved alternative method is selected, e-GGRT requires you to enter the following information:

- Name of administrator-approved alternative method
- Description of administrator-approved alternative method

- Administrator-approved alternative method request date
- Administrator-approved alternative method approval date

Click NEXT to proceed to the Subpart E Overview page. See the applicable Subpart E Unit Information page for instructions on entering unit information:

- [Subpart E Unit Information for the Site-Specific Emission Factor and Production Data Method](#)
- [Subpart E Unit Information for an Administrator-Approved Alternative Method](#)

Subpart E Unit Information for the Site-Specific Emission Factor and Production Data Method

Complete the following steps to enter information for adipic acid production units for which you use the site-specific emission factor and production data method to estimate N_2O emissions:

Step 1. Add an Adipic Acid Production Unit

From the Subpart E Overview page, click on the Add a Unit link beneath the UNIT SUMMARY table.

>> [Click this link to expand](#)


The screenshot displays the EPA e-GGRT interface for Subpart E: Adipic Acid Production (2014). The page includes a navigation bar with links for HOME, FACILITY REGISTRATION, FACILITY MANAGEMENT, and EMISSIONS REPORTING. The main content area features a 'SUBPART E SUMMARY INFORMATION FOR THIS FACILITY' table with the following data:

Methanol emissions (metric tons)	Methanol emissions (unrefined metric tons)
0.000	0.000


Below the summary table is a 'UNIT SUMMARY' table with the following data:

Unit ID	Unit Name	Status	Details
ADP-1	Adipic Acid Production	Complete	Details

A 'Facility Overview' link is located at the bottom left of the page.



United States
Environmental Protection
Agency



Electronic Greenhouse Gas
Reporting Tool

HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING

Hello, Richard Richards | My Profile | Logout

e-GGRT Help

Using e-GGRT for Subpart E reporting


DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)

[Subpart E Overview](#)


OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.



0.330

Annual mass of N₂O (metric tons)





Subpart E: No Validation Messages

Method: Site-Specific emission factor and production data [CHANGE](#)

SUBPART E SUMMARY INFORMATION FOR THIS FACILITY

N ₂ O emissions (metric tons)	N ₂ O emissions sold/transferred (metric tons)	
0.330	0.000	OPEN

UNIT SUMMARY

Unit Name/ID	Status ¹		Delete
 AA-1	Complete	OPEN	

[+ ADD a Unit](#)


[↑ Facility Overview](#)

Paperwork Reduction Act Burden Statement | Contact Us


e-GGRT RY2014.R21 | E-overview

This action takes you to the Add/Edit Unit page shown below.

>> [Click this link to expand](#)



United States
Environmental Protection
Agency



Electronic Greenhouse Gas
Reporting Tool

HOME
FACILITY REGISTRATION
FACILITY MANAGEMENT
DATA REPORTING

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e-GGRT Help

DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)

[Subpart Overview](#) | [Subpart E Unit](#)

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.

UNIT INFORMATION

Name or ID *

(48 characters maximum)

Description (optional)

Type: Adipic Acid Production Unit

ADDITIONAL INFORMATION

Configuration of *


Subpart E Reporting

CANCEL


SAVE

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2014.R21 | E-overview




United States
Environmental Protection
Agency



Electronic Greenhouse Gas
Reporting Tool

[HOME](#)
[FACILITY REGISTRATION](#)
[FACILITY MANAGEMENT](#)
[DATA REPORTING](#)

Hello, Richard Richards | [My Profile](#) | [Logout](#)


e-GGRT Help

DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)

[Subpart Overview](#) » [Add/Edit Unit](#)

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

* denotes a required field

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.

UNIT INFORMATION

Name or ID *
(40 characters maximum)

Description (optional)

Type
Adipic Acid Production Unit

ABATEMENT CONFIGURATION

Configuration of abatement technologies *
Select

CANCEL

SAVE

Paperwork Reduction Act Burden Statement
|
Contact Us

e-GGRT RY2014.R21
|
E-Unit info

Enter the following information on the Add/Edit Unit page:

- A unique name or identifier (see also [About Unique Unit Names](#))
- An optional description of the unit

In the ABATEMENT CONFIGURATION section, select the configuration of abatement technologies from the following options in the dropdown:

- One abatement technology is located after the test point (Equation E-3a)
- Multiple abatement technologies are located after the test point in series (Equation E-3b)
- Multiple abatement technologies are located after the test point in parallel (Equation E-3c)
- No abatement technologies are located after the test point (Equation 3-d)

Click on SAVE to return to the Subpart E Overview page.

Step 2. Enter Site-Specific Method Details

From the Subpart E Overview page, click on the OPEN button for the unit you wish to enter information. This action will take you to the Site-Specific Method Details page for that unit, as shown in the following screenshot.

>> Click this link to expand

DR Enterprises - TEST
Subpart E: Adipic Acid Production (2014)
[Subpart Overview](#) » [AA-1](#) » [Site-specific Method Details](#)

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS
 Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.

SITE-SPECIFIC METHOD DETAILS
 Unit name or ID: AA-1
 Number of test runs: 0
 Number of times test runs were repeated:
 Method used for the performance test:

TEST RUNS

Name/ID	N ₂ O Concentration (ppm)	Volumetric Flow (dscf/hr)	Delete
+ADD Test Run			

ABATEMENT TECHNOLOGIES

Name/ID	Destruction Efficiency	Abatement Utilization Factor	Delete
+ADD Abatement Technology			

[CANCEL](#) [SAVE](#)

DR Enterprises - TEST
Subpart E: Adipic Acid Production (2014)
[Subpart Overview](#) » [AA-1](#) » [Site-specific Method Details](#)

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS
 Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.

SITE-SPECIFIC METHOD DETAILS
 Unit name or ID: AA-1
 Number of test runs: 0
 Number of times test runs were repeated:
 Method used for the performance test:

TEST RUNS

Name/ID	N ₂ O Concentration (ppm)	Volumetric Flow (dscf/hr)	Delete
+ADD Test Run			

ABATEMENT TECHNOLOGIES

Name/ID	Destruction Efficiency	Abatement Utilization Factor	Delete
+ADD Abatement Technology			

[CANCEL](#) [SAVE](#)

Enter the following information in the SITE-SPECIFIC METHOD DETAILS section of the page:

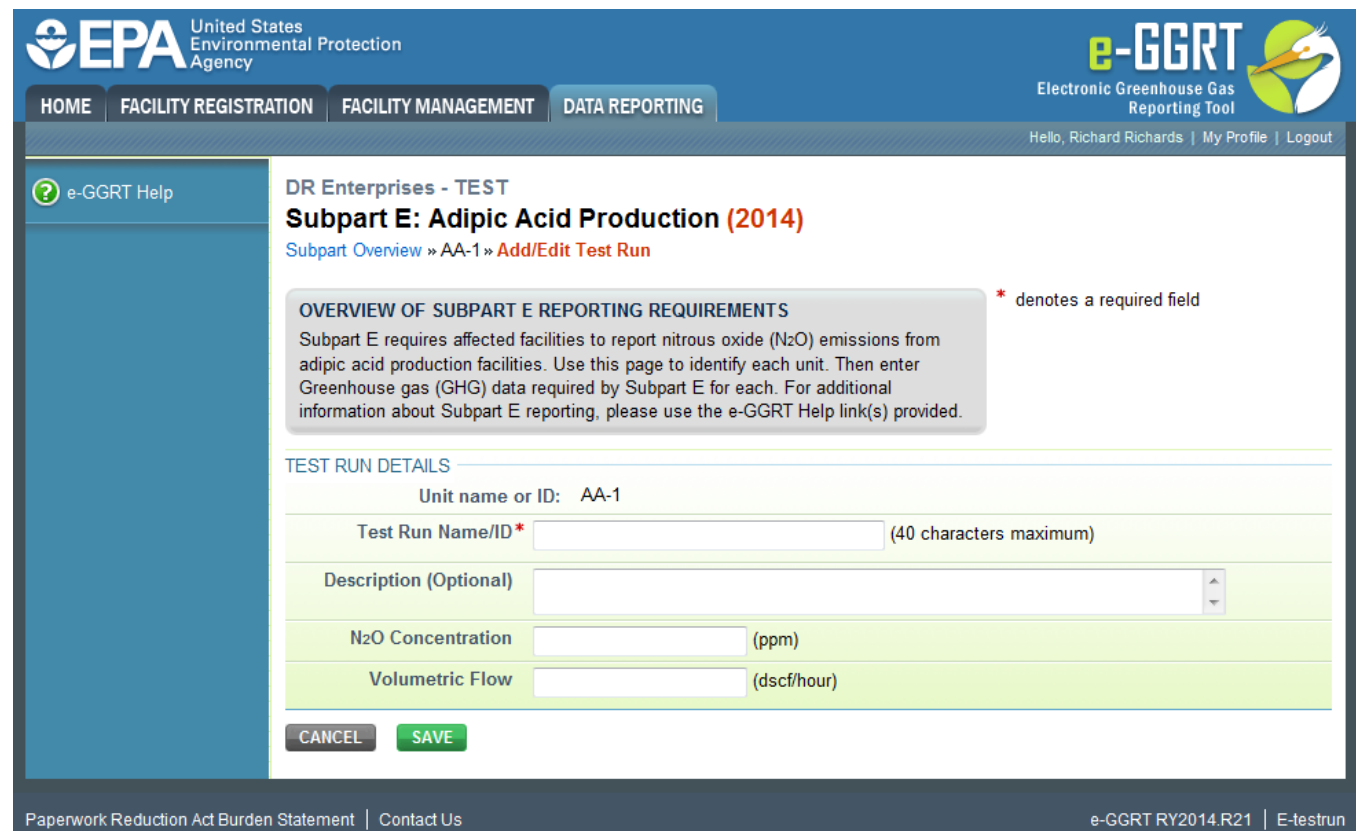
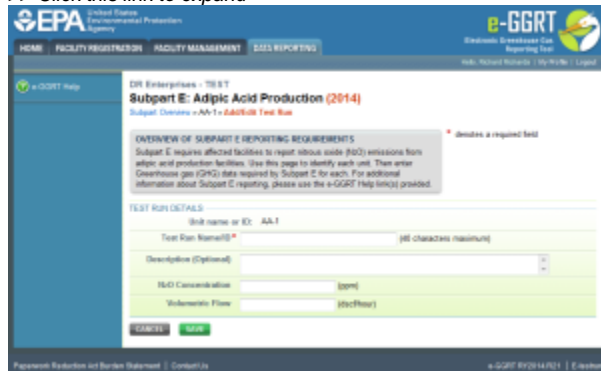
- Number of times test runs were repeated
- Method used for the performance test selected from the following options in the dropdown box:
 - ASTM D6348-03
 - EPA Method 320

When you have finished entering this information, click on SAVE to return to the Subpart E Overview page.

Step 3. Enter Information on Test Runs

From the Site-Specific Method Details page for the unit, click on the Add Test Run link beneath the TEST RUNS table. This action will take you to the Add /Edit Test Run page, as shown in the next screenshot.

>> Click this link to expand



Enter the following information in the TEST RUN DETAILS section of the Add/Edit Test Run page:

- A unique name or identifier for the test run
- An optional description of the test run
- N₂O Concentration (ppm)
- Volumetric Flow (dscf/hour)

Click SAVE to return to the Site-Specific Method Details page for the unit. Repeat this step for each test run conducted on this unit.

Step 4. Enter Abatement Technologies Information

From the Site-Specific Method Details page for the unit, click on the ADD Abatement Technology link beneath the ABATEMENT TECHNOLOGIES table. This action will take you to the Add/Edit Abatement Technology page, shown in the next screenshot.

>> Click this link to expand

The screenshot shows the e-GGRT web application interface. At the top, there's a navigation bar with 'HOME', 'FACILITY REGISTRATION', 'FACILITY MANAGEMENT', and 'DATA REPORTING'. The main content area is titled 'DR Enterprises - TEST' and 'Subpart E: Adipic Acid Production (2014)'. It includes an 'OVERVIEW OF SUBPART E REPORTING REQUIREMENTS' section, a 'FACILITY'S INPUTS VERIFIER FILE' section with a 'Save Inputs Data Locally' button, and an 'ABATEMENT TECHNOLOGY DETAILS' section with input fields for 'Abatement technology Name/ID', 'Description (Optional)', 'Destruction efficiency (DF)', and 'Abatement utilization factor (AF)'. A red box highlights the 'Abatement utilization factor (AF)' field, and a tooltip indicates 'Use Inputs Verifier to calculate'.

This is a full screenshot of the e-GGRT web application. The header includes the EPA logo and 'United States Environmental Protection Agency'. The navigation bar has 'HOME', 'FACILITY REGISTRATION', 'FACILITY MANAGEMENT', and 'DATA REPORTING'. The user is logged in as 'Hello, Richard Richards | My Profile | Logout'. The main content area is titled 'DR Enterprises - TEST' and 'Subpart E: Adipic Acid Production (2014)'. It includes an 'OVERVIEW OF SUBPART E REPORTING REQUIREMENTS' section, a 'FACILITY'S INPUTS VERIFIER FILE' section with a 'Save Inputs Data Locally' button, and an 'ABATEMENT TECHNOLOGY DETAILS' section with input fields for 'Unit name/ID: AA Unit 1', 'Abatement technology Name/ID', 'Description (Optional)', 'Destruction efficiency (DF)', and 'Abatement utilization factor (AF)'. A red box highlights the 'Abatement utilization factor (AF)' field, and a tooltip indicates 'Use Inputs Verifier to calculate'. The footer includes 'Paperwork Reduction Act Burden Statement | Contact Us' and 'e-GGRT RY2014.R21 | E-abatement'.

Enter the following information on the Add/Edit Abatement Technology page for the abatement technology:

- A unique name or identifier for the technology
- An optional description of the technology
- Destruction efficiency (DF) entered as a decimal fraction

Do not enter anything for the abatement utilization factor (AF), which will be calculated automatically by the Inputs Verification Tool (IVT) once all of the necessary data has been entered into e-GGRT.

When you have finished entering the abatement technology information for the unit, click SAVE, which will return you to the Site-Specific Method Details page. Repeat this step to add information on any additional abatement technologies used to control emissions from the unit.

Repeat steps 1 through 4 to enter information for any other adipic acid production units operated by the facility. When you are finished, click SAVE to return to the Subpart E Overview page.

Subpart E Unit Information for an Administrator-Approved Alternative Method

This page provides a step-by-step description of how to add unit information for a subpart E adipic acid production facility for which an Administrator-approved alternative method is used to estimate emissions.

Step 1. Add an Adipic Acid Production Unit

From the Subpart E Overview page, click on the Add a Unit link beneath the UNIT SUMMARY table.

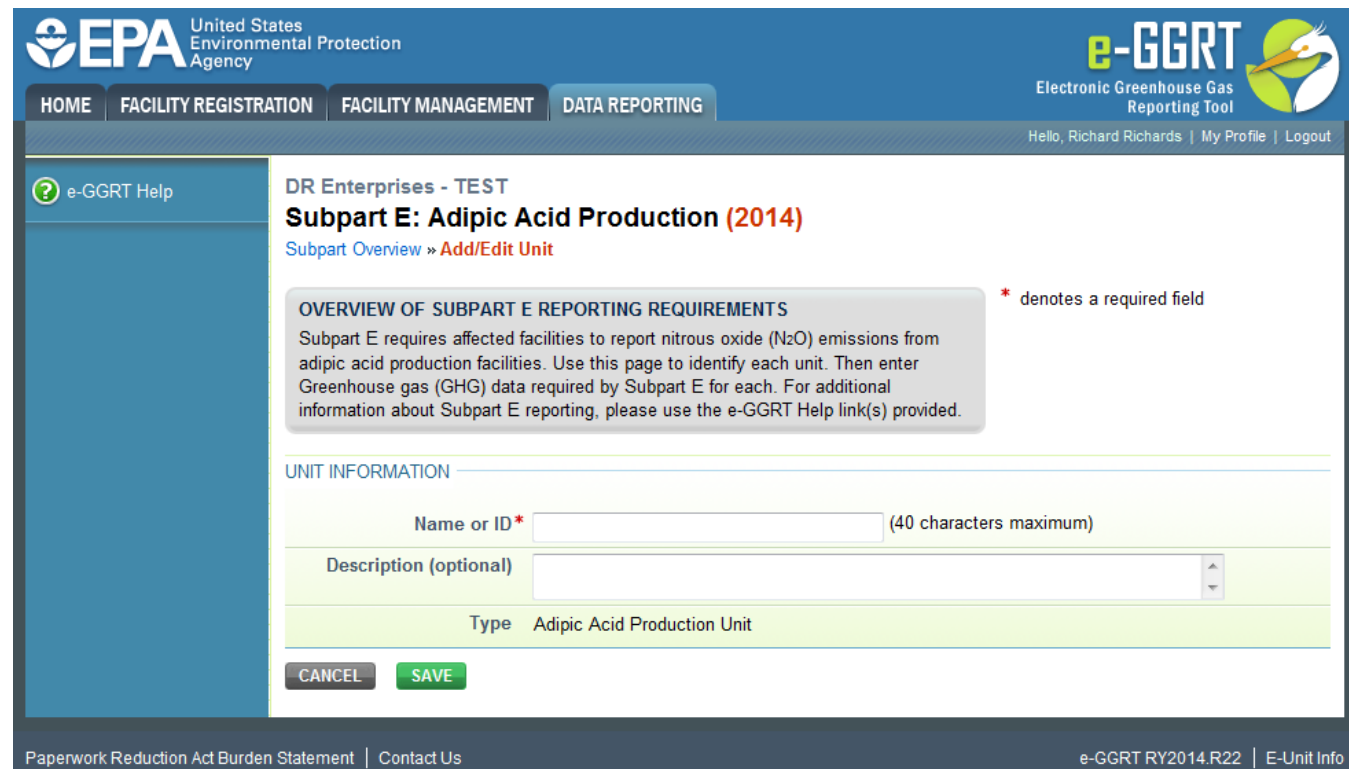
>> Click this link to expand

The screenshot shows the e-GGRT interface for 'DR Enterprises - TEST'. The main heading is 'Subpart E: Adipic Acid Production (2014)' with a 'Subpart E Overview' link. Below this is an 'OVERVIEW OF SUBPART E REPORTING REQUIREMENTS' section. To the right is a text input field for 'Annual mass of N₂O (metric tons)' and a 'Subpart E: View Validation' button. The 'Method' is set to 'Administrator-approved alternate method' with a 'CHANGE' button. Below is a 'SUBPART E SUMMARY INFORMATION FOR THIS FACILITY' table with columns for 'N₂O emissions (metric tons)' and 'N₂O emissions sold/transferred (metric tons)', and an 'OPEN' button. At the bottom is a 'UNIT SUMMARY' table with a 'Unit Name/ID' column and a 'Delete' button. A '+ ADD a Unit' link is located below the table, and a 'Facility Overview' button is at the bottom left.

The screenshot shows the e-GGRT interface for 'DR Enterprises - TEST'. The main heading is 'Subpart E: Adipic Acid Production (2014)' with a 'Subpart E Overview' link. Below this is an 'OVERVIEW OF SUBPART E REPORTING REQUIREMENTS' section. To the right is a text input field for 'Annual mass of N₂O (metric tons)' and a 'Subpart E: View Validation' button. The 'Method' is set to 'Administrator-approved alternate method' with a 'CHANGE' button. Below is a 'SUBPART E SUMMARY INFORMATION FOR THIS FACILITY' table with columns for 'N₂O emissions (metric tons)' and 'N₂O emissions sold/transferred (metric tons)', and an 'OPEN' button. At the bottom is a 'UNIT SUMMARY' table with a 'Unit Name/ID' column and a 'Delete' button. A '+ ADD a Unit' link is located below the table, and a 'Facility Overview' button is at the bottom left.

This action takes you to the Add/Edit Unit page shown below.

>> [Click this link to expand](#)



Step 2. Enter Unit Information

Enter the following information on the Add/Edit Unit page:

- A unique name or identifier (see also [About Unique Unit Names](#))
- An optional description of the unit

Click on SAVE to return to the Subpart E Overview page.

Repeat Steps 1 and 2 for each adipic acid production unit at your facility.

Subpart E Summary Information for the Site-Specific Emission Factor and Production Data Method

This section describes how to enter summary information, including emissions, for subpart E adipic acid production facility for which the site-specific emission factor and production data method is used to estimate emissions.

Enter Annual N₂O Emissions Using the IVT

The annual N_2O emissions that you report to EPA must be calculated using the Inputs Verifier Tool (IVT). You can access the IVT module for subpart E from the Subpart E Summary Information page, which you reach by clicking the OPEN button in the SUBPART E SUMMARY INFORMATION FOR THIS FACILITY table in the Subpart E Overview page, as shown in the next screenshot.

>> Click this link to expand

DR Enterprises - TEST
Subpart E: Adipic Acid Production (2014)
Subpart E Overview

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS
 Subpart E requires affected facilities to report nitrous oxide (N_2O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.

Annual mass of N_2O (metric tons): 0.330

Subpart E: No Validation Messages

Method: Site-Specific emission factor and production data [CHANGE](#)

SUBPART E SUMMARY INFORMATION FOR THIS FACILITY

N_2O emissions (metric tons)	N_2O emissions sold/transferred (metric tons)
0.330	0.000

[OPEN](#)

UNIT SUMMARY

Unit Name/ID	Status ¹	Delete
AA-1	Complete	OPEN X

[ADD a Unit](#)
[Facility Overview](#)

DR Enterprises - TEST
Subpart E: Adipic Acid Production (2014)
Subpart E Overview

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS
 Subpart E requires affected facilities to report nitrous oxide (N_2O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.

Annual mass of N_2O (metric tons): 0.330

Subpart E: No Validation Messages

Method: Site-Specific emission factor and production data [CHANGE](#)

SUBPART E SUMMARY INFORMATION FOR THIS FACILITY

N_2O emissions (metric tons)	N_2O emissions sold/transferred (metric tons)
0.330	0.000

[OPEN](#)


UNIT SUMMARY

Unit Name/ID	Status ¹	Delete
AA-1	Complete	OPEN X

[ADD a Unit](#)
[Facility Overview](#)

In the Subpart E Summary Information page, you will see a block labeled "Use Inputs Verifier to calculate" and a green GO button, as shown in the next screenshot. Click GO to open the IVT module.

>> Click this link to expand



The screenshot shows the EPA e-BGRT website. At the top, there is a navigation bar with links like 'HOME', 'ABOUT EPA', 'CONTACT', and 'EPA e-BGRT'. Below this, the main content area is titled 'EPA e-BGRT User Guide'. It includes a section for '2014-2015 EPA e-BGRT User Guide' with a download link. There is also a section for 'EPA e-BGRT User Guide' with a list of documents. The page features a search bar and a navigation menu on the right side.

 e-GGRT Help

DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)

[Subpart E Overview](#) » [Subpart E Summary Information](#)

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.


Annual N₂O mass emissions from adipic acid production (metric tons)

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

 **Inputs Data Loaded**

Last Saved File: 511706-DR_Enterprises_-_TEST-2014.xml

 [Save Inputs Data Locally](#)

Saved By (Date): Richard Richards (October 23, 2014 6:15 PM)

ANNUAL EMISSIONS

Annual N₂O emissions from adipic acid production (metric tons)
[Use Inputs Verifier to calculate](#) [GO](#)

Annual N₂O emissions from adipic acid production that is sold or transferred off site (metric tons)

ABATEMENT TECHNOLOGIES

Number of distinct abatement technologies

Non-selective catalytic reduction (NSCR) was used as an abatement technology
☐ Yes
☐ No

"Other" abatement technologies were used
☐ Yes
☐ No

OTHER PRODUCTION DATA

Number of months missing data procedures were used to measure adipic acid production

Select the method used to produce adipic acid
☐ Only cyclohexane is oxidized to produce adipic acid
☐ Materials other than cyclohexane are oxidized to produce adipic acid

Annual percent emission reduction for all production units combined (percent)

[CANCEL](#)

[SAVE](#)

This action will open the IVT module that calculates N₂O emissions for subpart E facilities using the site-specific emission factor and production data method.

If you have previously entered these inputs and saved your inputs file locally you should import your locally saved inputs file. If you are having trouble locating your inputs file or would like to "Reset" and recreate your inputs file, please review our help content reviewing these processes at [Reloading Your Inputs Verifier File or Resetting your Facility To Create a New Inputs Verifier File](#).

Once you enter the Inputs Verifier Tool (IVT) module you will note that these screens are formatted with a grey background and an Inputs Verifier header. Here you are asked to provide emissions inputs to allow the IVT to calculate emissions.

[illegible]



DR Enterprises - TEST

Subpart E: Adipic Acid Production (2015)

[Subpart Overview](#) » [Subpart E Summary Information](#) » AA Unit 1 » **Subpart E Equations**

SUBPART E EQUATION INPUTS

Use this page to enter the inputs to Subpart E Equation for each adipic acid production unit. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

UNIT INPUTS (1 OF 1)

AA Unit 1

Finished entering inputs

Annual adipic acid produced from unit (tons)

Equation E-1

$$EF_{N_2O,Z} = \sum_{i=1}^n \frac{C_{N_2O} \times 1.14 \times 10^{-7} \times Q_i}{P}$$

TR1

Production rate per test run during the performance test (tons adipic acid production/hr)

EF_{N_2O} (lb N₂O generated/ton adipic acid produced)

Equation E-2

$$AF_N = \frac{P_{Z,N}}{P}$$

CATALYTIC REDUCTION

Annual adipic acid production during which N₂O abatement technology was used (tons adipic acid produced)

AF_N (fraction of annual production that N₂O abatement technology is operating)

Equation E-3 A

$$E_{a,Z} = \frac{EF_{N_2O,Z} \times P_Z}{2205} \times (1 - (DF \times AF))$$

Conversion factor 2205 (lb/metric ton)

$E_{N_2O,Z}$ (metric tons)

SAVE

CANCEL

Note that the units that you have entered into e-GGRT are listed in the UNIT INPUTS section at the top of this page.

Enter the following information in the IVT module:

- In the Equation E-1 section of the page, enter the production rate per test run during the performance test (tons adipic acid production/hr) for each test run performed on the unit.
- In the Equation E-2 section of the page, enter the annual adipic acid production during which N_2O abatement technology was used (tons adipic acid produced) for each abatement technology.

When you have finished entering this information for the first subpart E unit, repeat these data entry steps for any other subpart E units at the facility. The IVT data entry pages for other units can be accessed by clicking on the unit names in the UNIT INPUTS section at the top of the page or the NEXT button immediately below this section.

When you have completed entering equation inputs for all subpart E units, click SAVE and then click on the "Finished entering inputs" button located beneath the UNIT INPUTS section, which will return you to the Subpart E Summary Information page.

Saving and Reloading Your Inputs Verifier File

As you enter data into the Inputs Verifier Tool (IVT), the system creates an "inputs file" that contains all the data that you entered into IVT. You must save your inputs file to your computer or other location that you designate. On each subsequent log in, you will be prompted to temporarily upload the latest version of the inputs file to e-GGRT. **e-GGRT will not save data entered into the IVT. Users are responsible for saving their facility's inputs file.** This page shows how the IVT assists users with this task.

The following example demonstrates how the inputs to equations are 1) entered, 2) saved locally, 3) temporarily loaded at a later session, 4) the screen errors you may receive, and 5) error messages you may receive if you attempt to open an inputs file that is not the most recent one saved for your facility.



If you are having trouble locating your inputs file or would like to "Reset" and recreate your inputs file, please review our help content reviewing these processes at [Reloading Your Inputs Verifier File](#) or [Resetting your Facility To Create a New Inputs Verifier file](#).

To access the inputs verifier tool, users would log in to e-GGRT with their username and password, select their facility, and navigate to the "Data Reporting" section of e-GGRT.

>> [Click this link to expand](#)

e-GGRT Help

Using e-GGRT for Subpart S reporting

Siem Reap

Subpart S: Lime Manufacturing (2014)

[Subpart Overview](#) » [Subpart S Summary Information](#)

EQ. S-4: FACILITY-LEVEL CO₂ 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.

86,161.6
(Eq. S-4) Annual CO₂ process emissions from lime production from all kilns (metric tons/year).

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

Inputs Data Loaded

Last Exported File: 515869-Siem_Reap-2014.xml

Save Inputs Data Locally

Exported By (Date): Sokha Chea (July 28, 2014 3:42:28 PM)

EQUATION S-4 SUMMARY AND RESULT

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

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

Annual CO₂ process emissions from lime production from all kilns **86161.6327** (metric tons)

Use Inputs Verifier to calculate **GO**

Enter/Report Alternate Result ☐

ADDITIONAL EMISSIONS DATA

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

Was CO₂ used on site? ☐ Yes ☒ No

CANCEL

SAVE

On the Data Reporting tab for the selected subpart, immediately below a reported emissions value, the user will find a button labeled "Use Inputs Verifier to calculate| GO". Clicking **GO** will open the inputs verifier tool for that reported emissions value. Please note that screens in the inputs verifier tool are clearly marked with a unique header indicating that you are using the IVT (shown below with red outline).

The screenshot displays the EPA C-GGRT Inputs/Verifier Tool interface. At the top, there is a header with the EPA logo and the text "C-GGRT Inputs/Verifier Tool". Below the header, there is a "Data Entry" section with a table for "Emissions Data". The table has columns for "Entity", "Year", "Emissions", and "Unit". There are also buttons for "Add", "Edit", and "Delete". Below the table, there is a "Verification" section with a table for "Verification Data". This table has columns for "Entity", "Year", "Emissions", and "Unit". There are also buttons for "Add", "Edit", and "Delete". At the bottom of the interface, there is a progress bar and a "Save" button.

Siem Reap

Subpart S: Lime Manufacturing (2014)

[Subpart Overview](#) » [Subpart S Summary Information](#) » [Equation S-1 Inputs](#)

EQUATION S-1 PRODUCT INPUTS

Use this page to enter the inputs to equation S-1. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA.

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

Inputs Data Not Saved

A file has not yet been saved for this facility. Be sure to use the "Save Inputs Data Locally" link to save a copy of your equation inputs data before you log off as e-GGRT will not save or store equation inputs data!

 [Save Inputs Data Locally](#)

EQUATION INPUTS (1 OF 2)

Product or By-Product Name (type)  **Product 1 (product)**  all inputs entered
 By Product A (by-product sold)  all inputs entered

[Equation S-4 Summary](#)

[←PREV](#)

[NEXT→](#)

$$\text{Equation S-1: } EF_{\text{LIME},i,n} = \left[(SR_{\text{CaO}} \times \text{CaO}_{i,n}) + (SR_{\text{MgO}} \times \text{MgO}_{i,n}) \right] \times \frac{2000}{2205}$$

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

JANUARY

Calcium oxide content, determined according to §98.194(c)	<input type="text" value="0.66"/>	(metric ton CaO/metric ton lime)	Make all months same
will not be stored by EPA			
Magnesium oxide content, determined according to §98.194(c)	<input type="text" value="0.4"/>	(metric ton MgO/metric ton lime)	Make all months same
will not be stored by EPA			
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<input type="text" value="520"/>	(tons)	Make all months same
will not be stored by EPA			

DECEMBER

Calcium oxide content, determined according to §98.194(c)	<input type="text" value="0.66"/>	(metric ton CaO/metric ton lime)	
will not be stored by EPA			
Magnesium oxide content, determined according to §98.194(c)	<input type="text" value="0.4"/>	(metric ton MgO/metric ton lime)	
will not be stored by EPA			
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<input type="text" value="520"/>	(tons)	
will not be stored by EPA			

[CANCEL](#)

[SAVE](#)

Entering Data Using the IVT

Once in the IVT, the user will be able to enter inputs to equations data. An example of an inputs to equations field is outlined with red in the screen shot below. Please note that every field for inputs to equations states that the data "will not be stored by EPA". Unless you save you input files, you will need to manually re-enter this data during future data entry sessions.



The screenshot below is from Subpart S and is displayed as an example. The screen for other subparts may differ slightly.

>> [Click this link to expand](#)

d-CCRT Inputs Verifier Tool

Version: 1.0.0.0

Author: [Name]

Copyright: [Year]

License: [License]

Input Parameters:

Parameter	Value	Unit
Edge of the Moon (km/s)	1.0	km/s
Edge of the Sun (km/s)	1.0	km/s

Calculated Values:

Parameter	Value	Unit
Edge of the Moon (km/s)	1.0	km/s
Edge of the Sun (km/s)	1.0	km/s

Difference:

Parameter	Value	Unit
Edge of the Moon (km/s)	0.0	km/s
Edge of the Sun (km/s)	0.0	km/s

Summary:

All input parameters are within the specified tolerance.

Results: [Pass/Fail]

Report: [Generate]

Siem Reap

Subpart S: Lime Manufacturing (2014)

[Subpart Overview](#) » [Subpart S Summary Information](#) » [Equation S-1 Inputs](#)

EQUATION S-1 PRODUCT INPUTS

Use this page to enter the inputs to equation S-1. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA.

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

Inputs Data Not Saved

A file has not yet been saved for this facility. Be sure to use the "Save Inputs Data Locally" link to save a copy of your equation inputs data before you log off as e-GGRT will not save or store equation inputs data!

 [Save Inputs Data Locally](#)

EQUATION INPUTS (1 OF 2)

Product or By-Product Name (type)  **Product 1 (product)**  all inputs entered
 **By Product A (by-product sold)**  all inputs entered

[Equation S-4 Summary](#)

[←PREV](#)

[NEXT→](#)

$$\text{Equation S-1: } EF_{\text{LIME},i,n} = \left[(SR_{\text{CaO}} \times \text{CaO}_{i,n}) + (SR_{\text{MgO}} \times \text{MgO}_{i,n}) \right] \times \frac{2000}{2205}$$

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

JANUARY

Calcium oxide content, determined according to §98.194(c)	<div>0.66</div> <div>will not be stored by EPA</div>	(metric ton CaO/metric ton lime)	Make all months same
Magnesium oxide content, determined according to §98.194(c)	<div>0.4</div> <div>will not be stored by EPA</div>	(metric ton MgO/metric ton lime)	Make all months same
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<div>520</div> <div>will not be stored by EPA</div>	(tons)	Make all months same

DECEMBER

Calcium oxide content, determined according to §98.194(c)	<div>0.66</div> <div>will not be stored by EPA</div>	(metric ton CaO/metric ton lime)	
Magnesium oxide content, determined according to §98.194(c)	<div>0.4</div> <div>will not be stored by EPA</div>	(metric ton MgO/metric ton lime)	
Emission factor for lime type (calculated input to Equation S-4)	0.8659	(metric tons CO2/ton lime)	
Weight or mass of lime type produced (input to Equation S-4)	<div>520</div> <div>will not be stored by EPA</div>	(tons)	

[CANCEL](#)

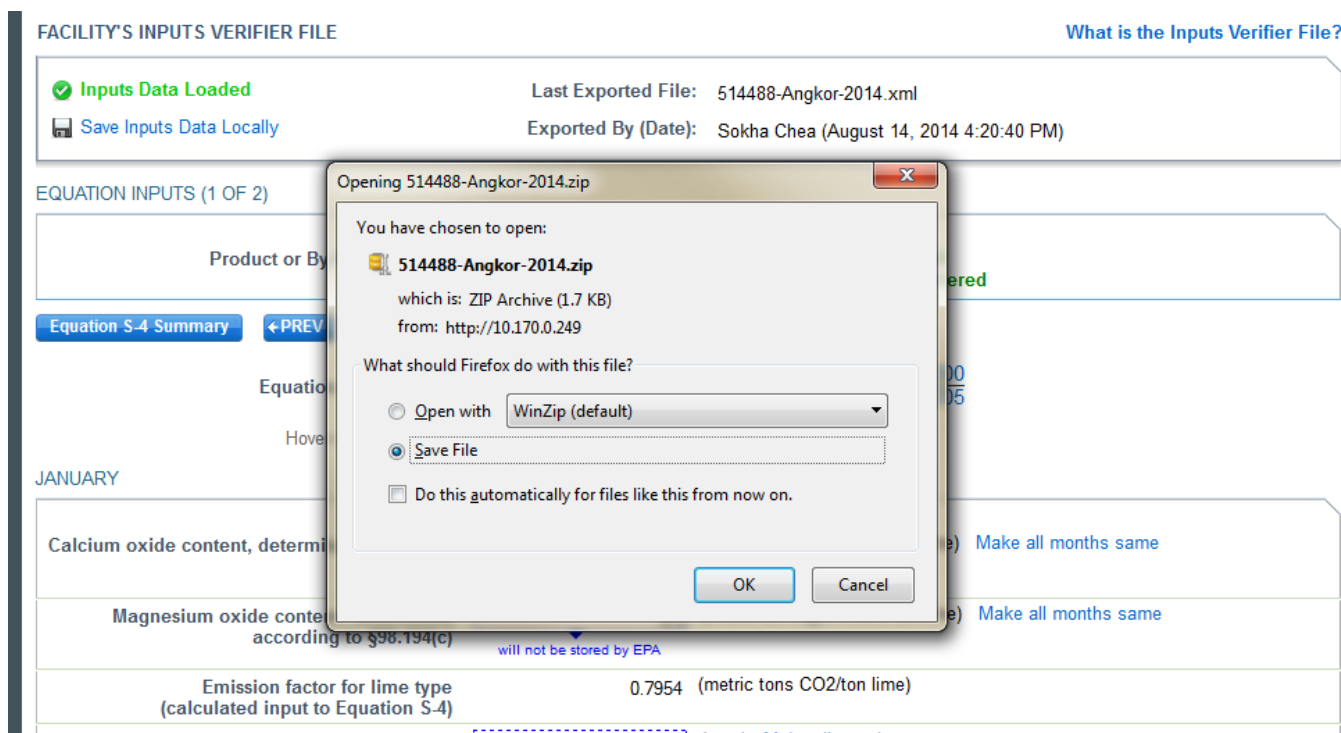
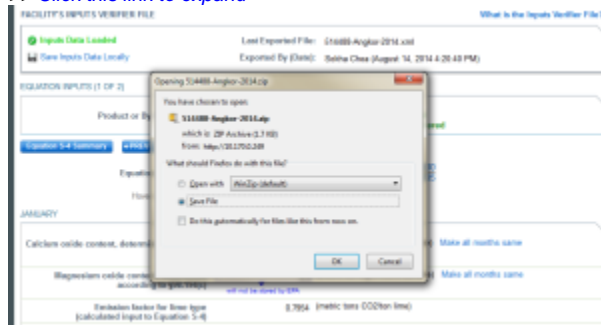
[SAVE](#)

Saving Data Entered in the IVT

Data entered into the inputs verifier module are **NOT** saved in e-GGRT. Only the output values from the inputs verifier module are saved in e-GGRT. **Therefore, each user/facility will have to save their inputs verifier file to their local hard drive and keep track of the file for future use.** On the top of each IVT screen, immediately below the grey box, IVT will present the save status of your FACILITY'S INPUTS VERIFIER FILE (File History), which contains the data entered into the inputs verifier module. To use e-GGRT in the future for your facility, you must save this file in a place where you can access it. This status box is also available on the Facility Overview page. Prior to saving your inputs verifier file, this section of the screen will state **"Inputs Data Not Saved"** in red letters and will provide the "Last Saved File" field. Click **"Save Inputs Data"** to save the inputs verifier file to your computer. This status box appears on many pages throughout e-GGRT and IVT so that it is easy for you to save inputs. However, you only need to save inputs at the completion of each data entry session.

After clicking **"Save Inputs Data"**, you will be able to save the inputs verifier file to your computer. Please note that different browsers may allow the user to set file-saving preferences and default locations. The example shown below uses the Firefox browser. Each user's save dialog box and defaults may appear differently, depending on the browser used. For information on browser-specific behaviors please refer to [Browser-specific issues and behaviors](#).

>> [Click this link to expand](#)



Once you have saved the file, the inputs verifier file status box will display **"Inputs Data Saved"** in green text and the "Saved By (Date):" field that shows the name of the user who most recently saved an inputs verifier file and the date and time." Each time you click "Save Inputs Data Locally", the IVT will record that you have saved your inputs verifier file. The IVT does not record where you save your inputs verifier file or whether you elect to cancel this action.

Reloading an Inputs Verifier File

When you come back to e-GGRT in a later session, you will return to the FACILITY or SUPPLIER OVERVIEW web form. Here you will see the box for the FACILITY'S INPUTS VERIFIER FILE (File History), with the message that **"Inputs Data Not Loaded"** in red text. To load an inputs verifier file that has been previously saved, click the link labeled **"Temporarily Load Inputs Data"**. Then browse to and select the inputs verifier file saved locally (to your local computer or local network drive). The IVT will accept the ZIP file or XML file previously downloaded by the user or a copy of that file (note: this file may be renamed but its contents must be identical). Finally, click the **IMPORT** button to load the file to the inputs verifier tool.

>> [Click this link to expand](#)

Temporarily load Inputs Verifier data

Last Saved File: 515408-Subpart_C-2015-v4.0.5
Saved By (Date): Vincent Vega (February 17, 2016 10:52 AM)

To proceed, locate the Last Saved File above with the Browse (or Choose File) field below and click LOAD.

Choose File No file chosen

LOAD CANCEL

If you are unable to locate the Last Saved File above, or know it to be lost:

1. You may load an older version of your inputs file. Doing so will require the system to re-calculate and re-validate all equations based on the inputs contained in that inputs file version.
2. You may "reset" your facility. The reset process will enable you to enter this subpart, but, the reset process will remove ALL previously calculated Inputs Verifier Tool results and will require you to re-enter ALL Inputs Verifier Tool equation inputs data for ALL of this facility's subparts.

RESET FACILITY

Temporarily load Inputs Verifier data

Last Saved File: 515408-Subpart_C-2015-v4.0.5
Saved By (Date): Vincent Vega (February 17, 2016 10:52 AM)

To proceed, locate the Last Saved File above with the Browse (or Choose File) field below and click LOAD.

Choose File No file chosen

LOAD CANCEL

If you are unable to locate the Last Saved File above, or know it to be lost:

1. You may load an older version of your inputs file. Doing so will require the system to re-calculate and re-validate all equations based on the inputs contained in that inputs file version.
2. You may "reset" your facility. The reset process will enable you to enter this subpart; but, the reset process will remove ALL previously calculated Inputs Verifier Tool results and will require you to re-enter ALL Inputs Verifier Tool equation inputs data for ALL of this facility's subparts.

RESET FACILITY

If the user attempts to reload an inputs verifier file that is not the one most recently saved for the facility, the user will receive the following warning message. The system prevents the user from accidentally loading an outdated file and thus losing the most recent data. Note that you may elect to choose "I Would Like to Upload this File" and the system will attempt to reconcile all validation messages and IVT calculations (which are based on the most recently-saved file) based on the inputs contained in the old file that you are electing to load. **If you elect to proceed to upload an old file, it is highly recommended that you review all equation inputs and calculations to ensure your annual report is complete and accurate.**

>> [Click this link to expand](#)

The inputs Verifier File you are attempting to load is not the last saved file. It is strongly recommended that you locate the last saved file in order to ensure that you do not lose any previously completed work. You may refer to the following help content if you are having trouble locating your most recent file: [Finding Last Input Files](#). If you would like to try again with a different file, please click CANCEL. If you would like to load this file, the system will re-calculate and re-validate all equations based on the inputs contained in this file and you will be prompted to re-save a local copy of this inputs file. If you proceed with this option, you should review all equation inputs and calculations to ensure your annual report is complete and accurate.

CANCEL I WOULD LIKE TO UPLOAD THIS FILE

The Inputs Verifier File you are attempting to load is not the last saved file. It is strongly recommended that you locate the last saved file in order to ensure that you do not lose any previously completed work. You may refer to the following help content if you are having trouble locating your most recent file: Finding Lost Input Files. If you would like to try again with a different file, please click CANCEL. If you would like to load this file, the system will re-calculate and re-validate all equations based on the inputs contained in this file and you will be prompted to re-save a local copy of this inputs file. If you proceed with this option, you should review all equation inputs and calculations to ensure your annual report is complete and accurate.

CANCEL

I WOULD LIKE TO UPLOAD THIS FILE

Screen Errors You May Receive

When attempting to save inputs data during the IVT data entry process, the user may receive screen errors that indicate the user has not completely entered required data to the Inputs Verifier Tool. Screen errors must be corrected before you will be permitted to complete a save action. Once you have corrected these errors, IVT will be able to calculate the equation result and you will be able to save your inputs verifier file locally.

>> [Click this link to expand](#)

The screenshot displays the EPA e-GGRT Inputs Verifier Tool interface. At the top, the EPA logo and 'e-GGRT Inputs Verifier Tool' are visible. The user is logged in as 'Admin'. The main heading is 'Subpart 5: Lime Manufacturing (2014)'. Below this, there are tabs for 'Equation Overview', 'Subpart 5: Screening Information', and 'Equation 5-1 Inputs'. The 'Equation 5-1 PRODUCT INPUTS' section is active, showing instructions for entering inputs for Equation 5-1. A message states: 'Inputs Data Not Saved' and 'e-GGRT has not yet been saved for this facility. Be sure to use the "Save Inputs Data Locally" link to save a copy of your equation inputs data before you log off as e-GGRT will not save or store equation inputs data.' Below this, there is a 'Save Inputs Data Locally' link. The 'EQUATION INPUTS (OF 2)' section shows 'Product or By-Product Name (type)' as 'Product 1 (product)' with a status of 'all inputs entered'. The 'SCREEN ERRORS' section is highlighted in yellow and contains a message: 'Calcium oxide content for July, determined according to §105.104(c). This data element is required. Please enter the required data or click CANCEL.' Below this, the equation for Equation 5-1 is shown:
$$EF_{CaO} = \left[\left(\frac{WR_{CaO}}{CaO} \right) + \left(\frac{WR_{MgO}}{MgO} \right) \right] \times \frac{2000}{2200}$$
 A tooltip for the WR_{CaO} term is visible, stating: 'Calcium oxide content, determined according to §105.104(c). (metric ton CaO/metric ton lime). Rate all months same.' Below the equation, there are input fields for 'Calcium oxide content, determined according to §105.104(c)' and 'Magnesium oxide content, determined according to §105.104(c)'. The 'Emission factor for lime type (calculation input to Equation 5-1)' is shown as '1.7921 (metric tonne CO2/metric tonne)'. The bottom of the screen shows a navigation bar with 'Home', 'Screening', 'My Profile', and 'Logout'.

Angkor

Subpart S: Lime Manufacturing (2014)

[Subpart Overview](#) » [Subpart S Summary Information](#) » [Equation S-1 Inputs](#)

EQUATION S-1 PRODUCT INPUTS

Use this page to enter the inputs to equation S-1. The inputs to equations will be used for verification purposes only, and will not be stored by EPA. The results of the verification checks (the verification summary, viewable from the "Subpart Overview" page) will be stored by EPA.

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

Inputs Data Not Saved

A file has not yet been saved for this facility. Be sure to use the "Save Inputs Data Locally" link to save a copy of your equation inputs data before you log off as e-GGRT will not save or store equation inputs data!

 [Save Inputs Data Locally](#)

EQUATION INPUTS (1 OF 2)

Product or By-Product Name (type)  **Product 1 (product)**  all inputs entered
 **By Product (by-product sold)**  all inputs entered

[Equation S-4 Summary](#)

[← PREV](#)

[NEXT →](#)

SCREEN ERRORS

 Calcium oxide content for July, determined according to §98.194(c). This data element is required. Please enter the required data or click CANCEL.

$$\text{Equation S-1: } EF_{\text{LIME},i,n} = \left[\left(SR_{\text{CaO}} \times CaO_{i,n} \right) + \left(SR_{\text{MgO}} \times MgO_{i,n} \right) \right] \times \frac{2000}{2205}$$

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

JANUARY

Calcium oxide content, determined according to §98.194(c) (metric ton CaO/metric ton lime) [Make all months same](#)
will not be stored by EPA

Magnesium oxide content, determined according to §98.194(c) (metric ton MgO/metric ton lime) [Make all months same](#)
will not be stored by EPA

Emission factor for lime type 1.7021 (metric tons CO2/ton lime)
(calculated input to Equation S-4)

If the user inputs and saves data in IVT, then adds, deletes, or updates one or more inputs to an equation in IVT without saving the inputs file locally and subsequently attempts to log out of e-GGRT, the following warning message will be displayed.

>> [Click this link to expand](#)

WARNING! You have not saved data entered into the Inputs Verifier Tool.

If you wish to save this data before logging out, click **SAVE INPUTS** to return to e-GGRT. If you proceed to logout this data will be discarded as it is not saved by e-GGRT.

[SAVE INPUTS AND LOGOUT](#) [LOGOUT - DISCARD EQUATION INPUTS DATA](#) [CANCEL](#)

WARNING! You have not saved data entered into the Inputs Verifier Tool.

If you wish to save this data before logging out, click **SAVE INPUTS** to return to e-GGRT. If you proceed to logout this data will be discarded as it is not saved by e-GGRT.

[SAVE INPUTS AND LOGOUT](#)

[LOGOUT - DISCARD EQUATION INPUTS DATA](#)

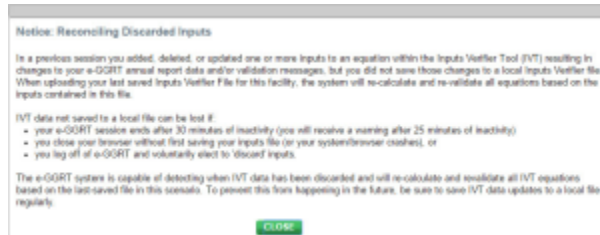
[CANCEL](#)

The user has three options:

- **SAVE INPUTS AND LOGOUT** - after clicking this button, the user is prompted to save the inputs file locally. Once the file has been saved, the user is logged out of e-GGRT.
- **LOGOUT - DISCARD EQUATION INPUTS DATA** - the most recent changes to the inputs data are discarded and the user is automatically logged out of e-GGRT. The inputs file is NOT saved.
- **CANCEL** - the user is returned to e-GGRT. The inputs file is NOT saved. Note that if the user clicks CANCEL and does not save the inputs file locally and later attempts to logout, the warning message will be displayed again).

If the user clicked the LOGOUT - DISCARD EQUATION INPUTS DATA button in a previous session, the following message will be displayed the next time the user logs in.

>> [Click this link to expand](#)



Notice: Reconciling Discarded Inputs

In a previous session you added, deleted, or updated one or more inputs to an equation within the Inputs Verifier Tool (IVT) resulting in changes to your e-GGRT annual report data and/or validation messages, but you did not save those changes to a local Inputs Verifier file. When uploading your last saved Inputs Verifier File for this facility, the system will re-calculate and re-validate all equations based on the inputs contained in this file.

IVT data not saved to a local file can be lost if:

- your e-GGRT session ends after 30 minutes of inactivity (you will receive a warning after 25 minutes of inactivity)
- you close your browser without first saving your inputs file (or your system/browser crashes), or
- you log off of e-GGRT and voluntarily elect to 'discard' inputs.

The e-GGRT system is capable of detecting when IVT data has been discarded and will re-calculate and revalidate all IVT equations based on the last-saved file in this scenario. To prevent this from happening in the future, be sure to save IVT data updates to a local file regularly.

CLOSE

To load an inputs verifier file that has been previously saved (as would occur if you logged off and came back to e-GGRT in a later session), the user would click the link labeled **"Temporarily Load Inputs Data"**. The user would browse to and select the inputs verifier file saved locally (to their local computer or local network drive). The IVT will accept the ZIP file or XML file previously downloaded by the user or a copy of that file (note: this file may be renamed but its contents must be identical) . The user would then click the **IMPORT** button to load the file to the inputs verifier tool.

FACILITY'S INPUTS VERIFIER FILE

[What is the Inputs Verifier File?](#)

Inputs Data Not Loaded

[Temporarily Load Inputs Data](#)

Last Saved File: 516069-MLH__Resources-2014.xml

Saved By (Date): M Huppert (October 20, 2014 11:28 AM)

If you attempt to reload an inputs verifier file that is not the one most recently saved for the facility, the user will receive the following warning message. The system prevents the user from accidentally loading an outdated file and thus losing the most recent data. Note that you may elect to choose "I Would Like to Upload this File" and the system will attempt to reconcile all validation messages and IVT calculations (which are based on the most recently-saved file) based on the inputs contained in the old file that you are electing to load. **If you elect to proceed to upload an old file, it is highly recommended that you review all equation inputs and calculations to ensure your annual report is complete and accurate.**

The Inputs Verifier File you are attempting to load is not the last saved file. It is strongly recommended that you locate the last saved file in order to ensure that you do not lose any previously completed work. You may refer to the following help content if you are having trouble locating your most recent file: [Finding Lost Input Files](#). If you would like to try again with a different file, please click CANCEL. If you would like to load this file, the system will re-calculate and re-validate all equations based on the inputs contained in this file and you will be prompted to re-save a local copy of this inputs file. If you proceed with this option, you should review all equation inputs and calculations to ensure your annual report is complete and accurate.

CANCEL

I WOULD LIKE TO UPLOAD THIS FILE

Enter Abatement Technologies Information

Subpart E also requires you to report the following information in the ABATEMENT TECHNOLOGIES section of the Subpart E Summary Information page:

- Enter the number of distinct abatement technologies
- Indicate whether non-selective catalytic reduction (NSCR) was used as an abatement technology by selecting the radio button for either "Yes" or "No"
- Indicate whether "other" abatement technologies were used by selecting the radio button for either "Yes" or "No"
- If "other" abatement technologies were used, provide a description of these technologies

Enter Other Production Data

Subpart E also requires you to report the following information in the OTHER PRODUCTION DATA section of the Subpart E Summary Information page:

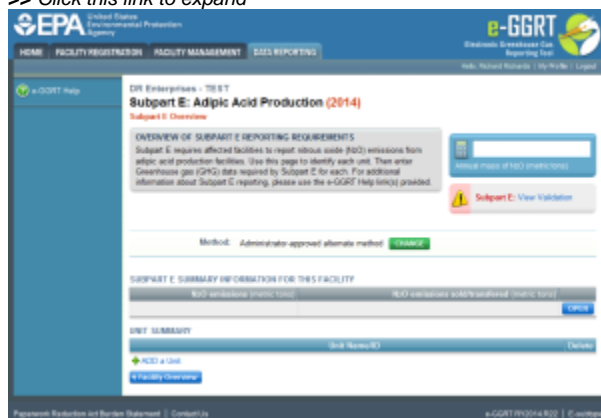
- Indicate, using the options in the dropdown box, the number of months missing data procedures were used to measure adipic acid production
- Select the method used to produce adipic acid from the following options:
 - Only cyclohexane is oxidized to produce adipic acid
 - Materials other than cyclohexane are oxidized to produce adipic acid
- If only cyclohexane was oxidized to produce adipic acid, enter the annual quantity of cyclohexane used to produce adipic acid (tons)
- If materials other than cyclohexane were oxidized to produce adipic acid, enter the annual quantity of cyclohexanone and cyclohexanol mixture used to produce adipic acid (tons)
- Enter the annual percent emission reduction for all production units combined


When you have finished entering this information, click SAVE, which will return you to the Subpart E Overview page where you will see N₂O emissions calculated by the IVT module displayed in the SUBPART E SUMMARY INFORMATION FOR THIS FACILITY table.

Subpart E Summary Information for an Administrator-Approved Alternative Method


From the Subpart E Overview page, click open in the SUBPART E SUMMARY INFORMATION FOR THIS FACILITY table.

>> [Click this link to expand](#)






United States
Environmental Protection
Agency



Electronic Greenhouse Gas
Reporting Tool

[HOME](#)
[FACILITY REGISTRATION](#)
[FACILITY MANAGEMENT](#)
[DATA REPORTING](#)

Hello, Richard Richards | [My Profile](#) | [Logout](#)


e-GGRT Help


DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)


Subpart E Overview

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.



Annual mass of N₂O (metric tons)



Subpart E: View Validation

Method: Administrator-approved alternate method

CHANGE

SUBPART E SUMMARY INFORMATION FOR THIS FACILITY

N ₂ O emissions (metric tons)	N ₂ O emissions sold/transferred (metric tons)	
		OPEN

UNIT SUMMARY

Unit Name/ID	Delete
+ ADD a Unit	
↑ Facility Overview	

Paperwork Reduction Act Burden Statement | [Contact Us](#)

e-GGRT RY2014.R22 | E-subtype

This action will take you to the Subpart E Summary Information page shown below.

>> [Click this link to expand](#)



United States
Environmental Protection
Agency



Electronic Greenhouse Gas
Reporting Tool

[HOME](#)
[FACILITY REGISTRATION](#)
[FACILITY MANAGEMENT](#)
[DATA REPORTING](#)

Hello, Richard Richards | [My Profile](#) | [Logout](#)


e-GGRT Help

DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)

Subpart E Overview

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.



Annual mass of N₂O (metric tons)



Subpart E: View Validation

Method: Administrator-approved alternate method

CHANGE

SUBPART E SUMMARY INFORMATION FOR THIS FACILITY

N ₂ O emissions (metric tons)	N ₂ O emissions sold/transferred (metric tons)	
		OPEN

UNIT SUMMARY

Unit Name/ID	Delete
+ ADD a Unit	
↑ Facility Overview	

DR Enterprises - TEST

Subpart E: Adipic Acid Production (2014)

[Subpart E Overview](#) » [Subpart E Summary Information](#)

OVERVIEW OF SUBPART E REPORTING REQUIREMENTS

Subpart E requires affected facilities to report nitrous oxide (N₂O) emissions from adipic acid production facilities. Use this page to identify each unit. Then enter Greenhouse gas (GHG) data required by Subpart E for each. For additional information about Subpart E reporting, please use the e-GGRT Help link(s) provided.



Annual N₂O mass emissions from adipic acid production (metric tons)

ANNUAL EMISSIONS

Annual N₂O emissions from adipic acid production (metric tons)

Annual N₂O emissions from adipic acid production that is sold or transferred off site (metric tons)

ABATEMENT TECHNOLOGIES

Number of distinct abatement technologies

Non-selective catalytic reduction (NSCR) was used as an abatement technology ☐ Yes ☐ No

"Other" abatement technologies were used ☐ Yes ☐ No

OTHER PRODUCTION DATA

Number of months missing data procedures were used to measure adipic acid production

Select the method used to produce adipic acid ☐ Only cyclohexane is oxidized to produce adipic acid ☐ Materials other than cyclohexane are oxidized to produce adipic acid

Annual percent emission reduction for all production units combined (percent)

Enter the following information on the Subpart E Summary Information page:

- In the ANNUAL EMISSIONS section:
 - Annual N₂O emissions from adipic acid production (metric tons)
 - Annual N₂O emissions from adipic acid production that is sold or transferred off site (metric tons)
- In the ABATEMENT TECHNOLOGIES section:
 - Number of distinct abatement technologies
 - Non-selective catalytic reduction (NSCR) was used as an abatement technology (select "Yes" or "No")
 - "Other" abatement technologies were used (select "Yes" or "No")
 - Description of "other" abatement technologies that were used, if applicable
- In the OTHER PRODUCTION DATA section:
 - Number of months missing data procedures were used to measure adipic acid production (select 0 to 12 from the dropdown box)
 - Select the method used to produce adipic acid from the following options:
 - Only cyclohexane is oxidized to produce adipic acid
 - Materials other than cyclohexane are oxidized to produce adipic acid
 - Annual quantity of cyclohexane used to produce adipic acid (tons), if only cyclohexane is oxidized to produce adipic acid
 - Annual quantity of cyclohexanone and cyclohexanol mixture used to produce adipic acid (tons) if materials other than cyclohexane are oxidized to produce adipic acid

- Annual percent emission reduction for all production units combined (percent)

When you have finished entering this information, click SAVE to return to the Subpart E Overview page.

[Back to Top](#)

See Also