

Subpart G Emissions Information for Process Units NOT Monitored by CEMS for RY2014 and Later Years

This page provides step-by-step instructions on how to enter and edit Subpart G Ammonia Manufacturing emissions information for process units that are NOT monitored by a Continuous Emissions Monitoring System (CEMS).

Step 1: Select a Unit

To select a unit for which to enter emissions data, find the unit in the UNIT SUMMARY table and click OPEN

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


The screenshot shows the EPA e-GGRT (Emissions, Greenhouse Gas Reporting Tool) interface for Subpart G: Ammonia Manufacturing (2014). The page is titled "Policy Corporation Subpart G: Ammonia Manufacturing (2014)" and includes a "Subpart Overview" section. The overview explains that Subpart G requires affected facilities to report various GHG process emissions from each ammonia manufacturing process unit. It instructs users to identify each ammonia manufacturing process unit and then enter Greenhouse gas (GHG) data required by Subpart G for each ammonia manufacturing process unit and for their facility. For additional information about Subpart G reporting, users are directed to the e-GGRT help (help) provided.


Below the overview, there is a "SUBPART G SUMMARY INFORMATION FOR THIS FACILITY" section with two input fields: "Annual Gross Prod. (metric tons)" and "Quantity of CO2 used to produce ammonia (metric tons)", followed by an "Annual Ammonia Prod. (metric tons)" field and a "Calculate" button.

The "UNIT SUMMARY" section contains two tables. The first table, "UNIT SUMMARY (Units monitored by CEMS)", has columns for "Unit Name/Location", "Feedback", "Status", and "Delete". It shows "No units have been added" and an "ADD a Unit" button. The second table, "UNIT SUMMARY (Units monitored by CEMS)", also has columns for "Unit Name/Location", "Feedback", "Status", and "Delete". It also shows "No units have been added" and an "ADD a Unit Monitored by CEMS" button.

At the bottom, there is a footnote: "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 these. If there are no validation messages for this output you will not see this link."


The footer includes "Paperwork Reduction Act Notice" and "Contact Us" links, and the version "e-GGRT RY2014/FY14 | EPA-600/R-14/014".


United States Environmental Protection Agency


Electronic Greenhouse Gas Reporting Tool

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 e-GGRT Help

Using e-GGRT for Subpart G reporting

Foley Corporation
Subpart G: Ammonia Manufacturing (2014)
Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
Subpart G requires affected facilities to report carbon dioxide (CO₂) process emissions from each ammonia manufacturing process unit. First, use this page to identify each ammonia manufacturing process unit and then enter Greenhouse gas (GHG) data required by Subpart G for each ammonia manufacturing process unit and for your facility. For additional information about Subpart G reporting, please use the e-GGRT Help link(s) provided.


 **Subpart G: [View Validation](#)**

SUBPART G SUMMARY INFORMATION FOR THIS FACILITY

| Annual Urea Prod. (metric tons) | Quantity of CO ₂ used to produce urea (metric tons) | Annual Ammonia Prod. (metric tons) | |
|---------------------------------|--|------------------------------------|----------------------|
| | | | OPEN |


UNIT SUMMARY

| Unit Name/Identifier | Feedstock | CO ₂ (metric tons) | Status ¹ | | Delete |
|--------------------------|-----------|-------------------------------|---------------------|--|--------|
| No units have been added | | | | | |

 [ADD a Unit](#)

UNIT SUMMARY (Units monitored by CEMS)

| Unit Name/Identifier | Feedstock | Status ¹ | | Delete |
|--------------------------|-----------|---------------------|--|--------|
| No units have been added | | | | |

 [ADD a Unit Monitored by CEMS](#)

[Facility Overview](#)

¹ 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).

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e-GGRT RY2014.R16 | SPG-OVERVIEW-1

Step 2: Access the Inputs Verifier Tool (IVT)

In the Equation Summary and Result section, you will see a block labeled "Use Inputs Verifier to calculate" and a green "Go" button. Click "Go" to open the inputs verifier module for Subpart G.

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

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Subpart G: Ammonia Manufacturing (2014)
[Subpart Overview » 4444 » Emissions \(Eq. G-1\)](#)

EQ. G-1 : GHG DATA AND ASSOCIATED INFORMATION
 Use this page to enter the GHG data required by Subpart G for this unit and for each month. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

FACILITY'S INPUTS VERIFIER FILE
[What is the Inputs Verifier File?](#)

No inputs verifier file exists
 Instructions: No Inputs Verifier file exists because you have not yet begun data entry of equation inputs. After entering equation inputs you will be able to save a file copy of the inputs you have entered to your computer. **It is important to save a copy before you log off as e-GGRT will not save or store equation inputs data!** For more information use the "What is the Inputs Verifier File?" link provided.

ANNUAL PRODUCTION
 Annual methanol produced by this unit (metric tons)

EQUATION G-1 SUMMARY AND RESULT

$$CO_{2,G,k} = \left(\sum_{n=1}^{12} \frac{44}{12} * Fdstk_{n,k} * CC_n * \frac{MW}{MVC} \right) * 0.001$$

Hover over an element in the equation above to reveal a definition of that element.
 k = Processing unit. n = Number of month.

Annual CO₂ emissions arising from feedstock consumption for this unit (metric tons)
 Use Inputs Verifier to calculate **GO**

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Subpart G: Ammonia Manufacturing (2014)
[Subpart Overview » 4444 » Emissions \(Eq. G-1\)](#)

EQ. G-1 : GHG DATA AND ASSOCIATED INFORMATION
 Use this page to enter the GHG data required by Subpart G for this unit and for each month. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.

FACILITY'S INPUTS VERIFIER FILE
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ANNUAL PRODUCTION
 Annual methanol produced by this unit (metric tons)

EQUATION G-1 SUMMARY AND RESULT

$$CO_{2,G,k} = \left(\sum_{n=1}^{12} \frac{44}{12} * Fdstk_{n,k} * CC_n * \frac{MW}{MVC} \right) * 0.001$$

Hover over an element in the equation above to reveal a definition of that element.
 k = Processing unit. n = Number of month.

Annual CO₂ emissions arising from feedstock consumption for this unit (metric tons)
 Use Inputs Verifier to calculate **GO**

Step 3: Enter Equation Inputs in IVT

See [Subpart G Entering Equation Inputs Using IVT](#) for instructions on how to enter your equation inputs in the inputs verifier module.

Step 4: Monthly substitute data values

For each ammonia manufacturing process unit accepting a gaseous feedstock and for each month, provide the following:

- The method used for determining the quantity of gaseous feedstock consumed (Flow meter or Other) [98.76(b)(3)]
- An indication if the quantity of gaseous feedstock is a substitute data value [98.3(c)(8)]
- An indication if the carbon content of the gaseous feedstock is a substitute data value [98.3(c)(8)]
- An indication if the molecular weight of the gaseous feedstock is a substitute data value [98.3(c)(8)]

For each ammonia manufacturing process unit accepting a liquid feedstock and for each month, provide the following:

- The method used for determining the quantity of liquid feedstock consumed (Flow meter or Other) [98.76(b)(3)]
- An indication if the quantity of liquid feedstock is a substitute data value [98.3(c)(8)]
- An indication if the carbon content of the liquid feedstock is a substitute data value [98.3(c)(8)]

For each ammonia manufacturing process unit accepting a solid feedstock and for each month, provide the following:

- The method used for determining the quantity of solid feedstock consumed (Company records or Other) [98.76(b)(3)]
- An indication if the quantity of solid feedstock is a substitute data value [98.3(c)(8)]
- An indication if the carbon content of the solid feedstock is a substitute data value [98.3(c)(8)]

For each monthly carbon content value provided for gaseous, liquid, or solid feedstocks, provide an indication of the basis for the carbon content value from the following list [98.76(b)(5)]:

- Supplier records
- ASTM D1945-03
- ASTM D1946-90 (Reapproved 2006)
- ASTM D2502-04 (Reapproved 2002)
- ASTM D2503-92 (Reapproved 2007)
- ASTM D3238-95 (Reapproved 2005)
- ASTM D5291-02 (Reapproved 2007)
- ASTM D3176-89 (Reapproved 2002)
- ASTM D5373-08

If any of the carbon content values are based on supplier reports, provide the measured carbon content of the feedstock (in kg C per kg of feedstock) as determined for QA/QC of supplier data under §98.74(e) [98.76(b)(6)]

When finished, click SAVE

If you don't have all the data, you can enter some now, save it, then finish it later

After you save the data on this page, the next time you open the page, the calculator on the top of the page will display the CO₂ process emissions for a unit, rounded to the nearest 0.1 of a metric ton. The value displayed is for informational purposes only

Note: The screenshot below is provided as an example and is for Equation G-1. Screens for Equation G-2 and G-3 will differ slightly.

>> Click this link to expand



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Using e-GGRT for Subpart G reporting

Foley Corporation

Subpart G: Ammonia Manufacturing (2014)

Subpart Overview » 4444 » Emissions (Eq. G-1)


EQ. G-1 : GHG DATA AND ASSOCIATED INFORMATION

Use this page to enter the GHG data required by Subpart G for this unit and for each month. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.



(Eq. G-1) Annual CO₂ emissions arising from feedstock consumption (metric tons).

FACILITY'S INPUTS VERIFIER FILE



No inputs verifier file exists

Instructions:

No Inputs Verifier file exists because you have not yet begun data entry of equation inputs. After entering equation inputs you will be able to save a file copy of the inputs you have entered to your computer. **It is important to save a copy before you log off as e-GGRT will not save or store equation inputs data!** For more information use the "What is the Inputs Verifier File?" link provided.

What is the Inputs Verifier File?

ANNUAL PRODUCTION

Annual methanol produced by this unit (metric tons)

EQUATION G-1 SUMMARY AND RESULT

$$CO_{2,dk} = \left(\sum_{n=1}^{12} \frac{F_{dstk,n}}{12} \cdot CC_n \cdot \frac{MW}{MVC} \right) \cdot 0.001$$

Hover over an element in the equation above to reveal a definition of that element.
k = Processing unit. n = Number of month.

Annual CO₂ emissions arising from feedstock consumption for this unit (metric tons)

Use Inputs Verifier to calculate **GO**

JANUARY

Volume of feedstock, determination method **Make all months same**

Volume of feedstock, substitute value used ☐

Carbon content, basis **Make all months same**

Carbon content, substitute value used ☐

Molecular Weight, substitute value used ☐

DECEMBER

Volume of feedstock, determination method

Volume of feedstock, substitute value used ☐

Carbon content, basis

Carbon content, substitute value used ☐

Molecular Weight, substitute value used ☐

Measured Carbon Content (from sample analysis)

Required if any carbon content data is based on supplier records. Enter value on an annual basis, the resulting measured carbon content. See §98.70(b)(6)

CANCEL

SAVE

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Using e-GGRT for Subpart G reporting

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Subpart G: Ammonia Manufacturing (2014)

[Subpart Overview](#) » [4444](#) » [Emissions \(Eq. G-1\)](#)

EQ. G-1 : GHG DATA AND ASSOCIATED INFORMATION

Use this page to enter the GHG data required by Subpart G for this unit and for each month. For additional information about the data collected on this page, please use the e-GGRT Help link(s) provided.



(Eq. G-1) Annual CO₂ emissions arising from feedstock consumption (metric tons)

FACILITY'S INPUTS VERIFIER FILE

What is the Inputs Verifier File?


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ANNUAL PRODUCTION

Annual methanol produced by this unit

(metric tons)

EQUATION G-1 SUMMARY AND RESULT

$$CO_{2,G,k} = \left(\sum_{n=1}^{12} \frac{44}{12} \cdot Fdstk_{n,k} \cdot CC_n \cdot \frac{MW}{MVC} \right) \cdot 0.001$$

Hover over an element in the equation above to reveal a definition of that element.
k = Processing unit. n = Number of month.

Annual CO₂ emissions arising from feedstock consumption for this unit

(metric tons)

Use Inputs Verifier to calculate
GO

JANUARY

Volume of feedstock, determination method

Select

Make all months same

Volume of feedstock, substitute value used

☐

Carbon content, basis

Select

Make all months same

Carbon content, substitute value used

☐

Molecular Weight, substitute value used

☐

DECEMBER

Volume of feedstock, determination method

Select

Volume of feedstock, substitute value used

☐

Carbon content, basis

Select

Carbon content, substitute value used

☐

Molecular Weight, substitute value used

☐

Measured Carbon Content (from sample analysis)

Required if any carbon content data is based on supplier records. Enter value on an annual basis, the resulting measured carbon content. See §98.76(b)(6)

CANCEL
SAVE

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e-GGRT RY2014 R16 | SPG-EM-1

Step 5: Repeat Steps 1-4

Repeat Steps 1-4 until emissions data have been entered for all process units NOT monitored by a CEMS

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See Also

[Screen Errors](#)

[Using e-GGRT to Prepare Your Subpart G Report for RY2014 and Later Years](#)

- [Subpart G Summary Information for this Facility for RY2014 and Later Years](#)
- [Subpart G Process Unit Information for Units NOT Monitored by CEMS for RY2014 and Later Years](#)
- [Subpart G Process Unit Information for Units Monitored by CEMS for RY2014 and Later Years](#)
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- [Subpart G Emissions Information for Process Units Monitored by CEMS for RY2014 and Later Years](#)

- [Subpart G Entering Equation Inputs Using IVT](#)

[Subpart Validation Report](#)