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Subpart NN - Suppliers of Natural Gas and Natural Gas Liquids

 A printer-friendly version (pdf) (27 pp, 14,065K) of GHG reporting instructions for this subpart

Please select a help topic from the list below:

- [Using e-GGRT to Prepare Your Subpart NN Report](#)
 - [Subpart NN Summary Information for this Supplier](#)
 - [Subpart NN Miscellaneous Information](#)
 - [Subpart NN LDC GHG Information](#)
 - [Subpart NN Fractionator GHG Information](#)
- [Carry forward of data from previous submissions into RY2011 forms](#)
- [Subpart NN Rule Guidance](#)
- [Subpart NN Rule Language \(eCFR\)](#)

Additional Resources:

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

Using e-GGRT to Prepare Your Subpart NN Report

This page provides an overview of subtopics that are central to Subpart NN reporting:

- [Summary Information for this Supplier](#)
- [Miscellaneous Information](#)
- [LDC GHG Information](#)
- [Fractionator GHG Information](#)
- [Validation Report](#)

If you previously reported for Reporting Year (RY) 2010, the Agency has carried some of your RY2010 data forward and entered it in your RY2011 forms to reduce reporting burden. It is still your responsibility to review and assure that all the information in your submission is correct, but the Agency believes that most of the data which 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 into RY2011 forms help content](#).

The end of the page contains links you can use for more information on these topics

Click image to expand



The screenshot shows the EPA e-GGRT (Electronic Greenhouse Gas Reporting Tool) interface. The header includes the EPA logo and navigation tabs: HOME, FACILITY REGISTRATION, FACILITY MANAGEMENT, and DATA REPORTING. The user is logged in as 'R.H.H. Environmental'.

The main content area is titled 'Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids (2011)' with a 'Subpart Overview' link. It provides an overview of reporting requirements for local distribution companies (LDCs), stating that Subpart NN requires affected natural gas LDCs to report the quantity of CO₂ that would result from the complete combustion or oxidation of the annual volumes of natural gas provided to end-users on their distribution systems. It instructs users to first enter fuel supply and Greenhouse gas (GHG) data required by Subpart NN, then enter the natural gas volumes supplied to residential, commercial and industrial consumers and electricity generating facilities. A note indicates that a red asterisk denotes a required field.

Below the overview, there is a 'Supplier Type' dropdown menu set to 'LDC: Natural gas local distribution company' with a 'CHANGE' button. A 'GHG SUMMARY' table shows 'Product' as 'Natural Gas' and 'CO₂ (metric tons)' as 'Incomplete', with an 'OPEN' button. Below this is a section for 'NATURAL GAS VOLUMES BY END USE CATEGORY (MSCF)' with tabs for 'Residential Consumers', 'Commercial Consumers', 'Industrial Consumers', and 'Electricity Generating Facilities'. The 'Residential Consumers' tab is selected, and there is an 'OPEN' button. A 'Facility Overview' link is also present.

At the bottom, a footnote explains the status of 'Incomplete': 'A status of "Incomplete" for a given product means that one or more data elements required by e-GGRT to calculate GHG quantities associated with the complete combustion or oxidation of that product is incomplete. For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validation" link above. A status of "Complete" for a given product does not necessarily mean that all required information has been entered, only that all data elements required to calculate GHG quantities associated with the complete combustion or oxidation of that product are complete. See the Data Completeness validation messages for details about any incomplete data by clicking the "View Validation" link above. (Note, if there are no validation messages for this subpart you will not see the "View Validation" link above.)

The footer contains links for 'Paperwork Reduction Act Burden Statement' and 'Contact Us', and the version 'e-GGRT RY2011 R.12 | 4/24/11 LDC'.

Summary Information for this Supplier

Subpart NN requires you to report the following data about your facility or company:

- The supplier type (LDC or NGL Fractionator)

This information must be input to e-GGRT

Miscellaneous Information

For LDCs, Subpart NN requires you to report the following data:

- The total annual volume (in thousand standard cubic feet) of Natural Gas delivered to each of the following end-user categories:
 - Residential consumers
 - Commercial consumers
 - Industrial consumers
 - Electricity generating facilities
- When you report the quantity of gas delivered to each of the 4 end-use categories make sure to include the following:
 - Natural Gas delivered and owned by your LDC
 - Natural Gas delivered to end-users by your LDC that IS NOT OWNED by your LDC
 - Any deliveries to facilities whom receive greater than 460,000 mscf of natural gas per year as reported in Equation NN-4.

For NGL Fractionators, Subpart NN requires you to report the following data:

- An indication of each NGL supplied by your facility
- The annual volume (in thousand standard cubic feet) of Natural Gas received for processing
- The annual quantity (in barrels) of y-grade bulk NGLs received from others for fractionation
- The annual quantity (in barrels) of Propane odorized at the facility and delivered to others

LDC GHG Information

For LDCs, Subpart NN requires you to report the following data:

- The annual CO₂ quantity (in metric tons) associated with gas delivered to all meters that receive less than 460,000 thousand standard cubic feet per year (excluding CO₂ associated with natural gas stored for future deliveries)
- The annual CO₂ quantity (in metric tons) that would result from the complete combustion or oxidation of the seven reported volumes that follow:
 - The annual volume (in thousand standard cubic feet) of natural gas received at city gate stations for redelivery on the distribution system, including for use by the LDC, and the specific industry standard used to measure this volume
 - The annual volume (in thousand standard cubic feet) of natural gas placed into storage, including gas liquefied and placed into storage
 - The annual volume (in thousand standard cubic feet) of natural gas that is used for deliveries in the reporting year that was not otherwise accounted for in the above reported volume
 - This includes natural gas previously stored on-system which is removed from storage and used for deliveries to customers or other LDCs by the LDC within the reporting year
 - This also includes liquefied natural gas (LNG) produced at on-system vaporization facilities for delivery on the distribution system
 - This also includes natural gas that bypassed the city gate and was delivered directly to LDC systems from producers or natural gas processing plants from local production
 - The annual volume (in thousand standard cubic feet) of natural gas delivered to downstream gas transmission pipelines and other LDCs
 - The annual volume (in thousand standard cubic feet) of natural gas delivered to each meter registering supply equal to or greater than 460,000 thousand standard cubic feet during the calendar year and the customer name, address, meter number, and EIA identification number (if known) of each meter reading used
- All developed EFs and HHVs and the industry standard(s) used to develop them, if you developed site-specific EFs or HHVs
- The number of days in the reporting year for which substitute data procedures were used to measure quantity, develop HHVs, and develop EFs
- The method used (method one or method two) for estimating CO₂ quantities that would result from the complete combustion or oxidation of natural gas supplied

Fractionator GHG Information

For NGL Fractionators, Subpart NN requires you to report the following data:

- Annual CO₂ quantity (in metric tons) associated with all NGLs supplied, excluding quantities associated with NGLs received from other fractionators
- Annual CO₂ quantities (in metric tons) associated with the total quantities of NGLs supplied, reported in the following product categories:
 - Ethane
 - Propane
 - Normal butane
 - Isobutane
 - Pentanes plus
- Annual CO₂ quantities (in metric tons) associated with the total quantities of NGLs that are received from other fractionators, reported in

the following product categories:

- Ethane
- Propane
- Normal butane
- Isobutane
- Pentanes plus
- The annual quantities (in barrels) of ethane, propane, normal butane, isobutane, and pentanes plus supplied to downstream facilities and the specific industry standard used to measure these quantities
- The annual quantities (in barrels) of ethane, propane, normal butane, isobutane and pentanes plus received from other NGL fractionators
- All developed EFs and HHVs and the industry standard(s) used to develop them, if you developed site-specific EFs or HHVs
- The number of days in the reporting year for which substitute data procedures were used to measure quantity, develop HHVs, and develop EFs
- The method used (method one or method two) for estimating CO₂ quantities that would result from the complete combustion or oxidation of each NGL product supplied

Validation Report

You can use the Validation Report to ensure the completeness and quality of your reporting data.

You should use the Validation Report to check your work. The Validation Report performs two types of checks:

- Data Completeness: Data that is required for reporting is missing or incomplete
- Data Quality: Data is outside of the expected range of expected values

You may use the Validation Report after you enter all data for products you supply, or all data for one product.

Note that the Validation Report is intended to assist users in entering data, but it is not an indication that the reporter has entered all necessary information, nor is it an indication that the reporter is in compliance with part 98. Furthermore a negative finding on the validation report is not a guarantee that a data element was entered incorrectly.

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See Also

[Screen Errors](#)

[Using e-GGRT to Prepare Your Subpart NN Report](#)

[Subpart NN Summary Information for this Supplier](#)

[Subpart NN Miscellaneous Information](#)

[Subpart NN LDC GHG Information](#)

[Subpart NN Fractionator GHG Information](#)

[Subpart Validation Report](#)

Subpart NN Summary Information for this Supplier

This topic provides a step-by-step description of how to enter Subpart NN summary information about this Supplier

Adding or Updating Summary Information for this Supplier

To add or update Subpart NN Summary Information for this Supplier, locate the REPORT DATA table on the Facility Overview page, and click OPEN next to Subpart NN

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (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 entry via e-GGRT web-forms ([Change](#))

REPORT DATA
[Add Reporting Source or Supplier Category](#) • [Validation Messages?](#) • [Subpart Reporting](#)
 Subpart A—General Information: None [OPEN](#)
 Subpart NN—Suppliers of Natural Gas and NGLs: 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	Submitted Date	Certification Date
GENERATE / RESUBMIT				

FACILITIES NOT SUBMITTING AN ANNUAL REPORT
 If this facility is not submitting an annual report this reporting year, please check the box below. For more information regarding legitimate reasons for not submitting a report to EPA, please use the e-GGRT Help link to the left.
 This facility is NOT required to submit a report ☐
[SAVE](#)

Subpart NN requires you to report the following data about your facility or company:

- The supplier type (LDC or NGL Fractionator)

This information must be input to e-GGRT

To enter your supplier type for the first time, select your supplier type from the drop-down menu and click START

Click image to expand

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids (2010)
[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
 Subpart NN requires affected suppliers of natural gas and Natural Gas Liquids (NGL) to report the amount of carbon dioxide (CO₂) that would result from the complete combustion or oxidation of the annual quantity of products supplied. Use this page to identify your supplier type. For additional information about Subpart NN reporting, please use the e-GGRT Help link(s) provided.

Supplier Type * LDC: Natural gas local distribution company [CANCEL](#) [START](#)

To change your supplier type, click CHANGE on the Subpart Overview page

Click image to expand

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids (2011)
[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR LOCAL DISTRIBUTION COMPANIES (LDCs)
 Subpart NN requires affected natural gas LDCs to report the quantity of CO₂ that would result from the complete combustion or oxidation of that product is incomplete. For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validator" link above. A status of "Complete" for a given product does not necessarily mean that all required information has been entered, only that all data elements required to calculate GHG quantities associated with the complete combustion or oxidation of that product are complete. See the Data Completeness validation messages for details about incomplete data by clicking the "View Validator" link above. (Note, if there are no validation messages for this subpart you will not see the "View Validator" link above.)

Supplier Type * LDC: Natural gas local distribution company [CHANGE](#)

GHG SUMMARY

Product	CO ₂ (metric tons)	Status
Natural Gas		Incomplete OPEN

NATURAL GAS VOLUMES BY END USE CATEGORY (MSCF)

Residential Consumers	Commercial Consumers	Industrial Consumers	Electricity Generating Facilities

[OPEN](#)

Facility Overview

*A status of "Incomplete" for a given product means that one or more data elements required by e-GGRT to calculate GHG quantities associated with the complete combustion or oxidation of that product is incomplete. For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validator" link above. A status of "Complete" for a given product does not necessarily mean that all required information has been entered, only that all data elements required to calculate GHG quantities associated with the complete combustion or oxidation of that product are complete. See the Data Completeness validation messages for details about incomplete data by clicking the "View Validator" link above. (Note, if there are no validation messages for this subpart you will not see the "View Validator" link above.)

Change your supplier type using the drop-down menu and click CHANGE

Click image to expand

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See Also

Screen Errors

[Using e-GGRT to Prepare Your Subpart NN Report](#)

[Subpart NN Summary Information for this Supplier](#)

[Subpart NN Miscellaneous Information](#)

[Subpart NN LDC GHG Information](#)

[Subpart NN Fractionator GHG Information](#)

[Subpart Validation Report](#)

Subpart NN Miscellaneous Information

Subpart NN GHG reporting contains two options:

- [Option A - Instructions for LDCs only](#)
- [Option B - Instructions for NGL Fractionators only](#)

LDCs should proceed to the section titled “Option A: Instructions for LDCs only” and may disregard the section titled “Option B: Instructions for NGL Fractionators only”

NGL Fractionators should proceed to the section titled “Option B: Instructions for NGL Fractionators only” and may disregard the section titled “Option A: Instructions for LDCs only”

To enter or edit miscellaneous information for LDCs and NGL Fractionators:

Option A: Instructions for LDCs Only

Click image to expand

For LDCs, Subpart NN requires you to report the following data:

- The total annual volume (in thousand standard cubic feet) of Natural Gas delivered to each of the following end-user categories:
 - Residential consumers
 - Commercial consumers
 - Industrial consumers
 - Electricity generating facilities
- When you report the quantity of gas delivered to each of the 4 end-use categories make sure to include the following:
 - Natural Gas delivered and owned by your LDC
 - Natural Gas delivered to end-users by your LDC that IS NOT OWNED by your LDC
 - Any deliveries to facilities whom receive greater than 460,000 mscf of natural gas per year as reported in Equation NN-4.

For definitions of these categories, refer to EIA Form 176 (Annual Report of Natural Gas and Supplemental Gas Supply & Disposition) and Instructions: http://www.eia.doe.gov/pub/oil_gas/natural_gas/survey_forms/eia176i.pdf

Starting on the Subpart NN Overview page, find the NATURAL GAS VOLUMES BY END USE CATEGORY (MSCF) table and click OPEN

Click image to expand

Enter the total annual volume (in thousand standard cubic feet) of Natural Gas delivered to residential, commercial and industrial consumers as well as electricity generating facilities

When finished, click SAVE

Option B: Instructions for NGL Fractionators only

Click image to expand

For NGL Fractionators, Subpart NN requires you to report the following data:

- The total annual volume (in thousand standard cubic feet) of Natural Gas received for processing
- The total annual quantity (in barrels) of y-grade bulk NGLs received from others for fractionation
- The total annual quantity (in barrels) of Propane odorized at the facility and delivered to others

Find the MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS table and click OPEN

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview • **Miscellaneous Information**

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS
Use this page to report the annual volume of natural gas received for processing, the annual quantity of y-grade bulk NGLs received from others for fractionation and the annual quantity of propane that the supplier odorizes at the facility and delivers to others. For additional information about entering miscellaneous information, please use the e-GGRT Help link(s) provided.

Reporting Parameter	Value
Annual Volumes of Natural Gas received for processing (mscf)	010000000
Annual quantity of y-grade bulk NGLs received from others for fractionation (barrels)	10000000
Annual quantity of Propane odorized at the facility and delivered to others (barrels)	16000000

Enter the annual volume (in thousand standard cubic feet) of Natural Gas received for processing, annual quantity (in barrels) of y-grade bulk NGLs received from others for fractionation and annual quantity (in barrels) of Propane odorized at the facility and delivered to others

When finished, click SAVE

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See Also

Screen Errors

[Using e-GGRT to Prepare Your Subpart NN Report](#)

[Subpart NN Summary Information for this Supplier](#)

[Subpart NN Miscellaneous Information](#)

[Subpart NN LDC GHG Information](#)

[Subpart NN Fractionator GHG Information](#)

[Subpart Validation Report](#)

Subpart NN LDC GHG Information

This page provides a step-by-step description of how to enter Subpart NN GHG data for LDCs.

The GHG information required for LDCs includes six steps:

- [Step A1 - Calculation Methodology](#)
- Step A2:
 - [Step A2.1 - Equation NN-1 Summary and Results](#)
 - OR
 - [Step A2.2 - Equation NN-2 Summary and Results](#)
- [Step A3 - Equation NN-3 Summary and Results](#)
- [Step A4 - Equation NN-4 Summary and Results](#)
- [Step A5 - Equation NN-5 Summary and Results](#)
- [Step A6 - Equation NN-6 Summary and Results](#)

The steps required to complete your LDC report include the use of either Step A2.1 or Step A2.2, but not both.

Your selection of a calculation methodology in Step A1 will determine whether e-GGRT uses Step A2.1 or Step A2.2 to calculate CO₂ quantities from natural gas received at city gate station(s).

Each step is described below

Step A1 - Calculation Methodology

Click image to expand

R H Environmental
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids (2011)
[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR LOCAL DISTRIBUTION COMPANIES (LDCs)
 Subpart NN requires affected natural gas LDCs to report the quantity of CO₂ that would result from the complete combustion or oxidation of the annual volumes of natural gas provided to end-users on their distribution systems. First, enter fuel supply and Greenhouse gas (GHG) data required by Subpart NN. Next, enter the natural gas volumes supplied to residential, commercial and industrial consumers and electricity generating facilities. For additional information about Subpart NN reporting, please use the e-GRRT Help link(s) provided.

* denotes a required field
Subpart NN: View Validation

Supplier Type * LDC: Natural gas local distribution company [CHANGE](#)

Product	CO ₂ (metric tons)	Status
Natural Gas		Incomplete OPEN

NATURAL GAS VOLUMES BY END USE CATEGORY (MSCF)
[Residential Consumers](#) [Commercial Consumers](#) [Industrial Consumers](#) [Electricity Generating Facilities](#) [OPEN](#)

[Facility Overview](#)

*A status of "Incomplete" for a given product means that one or more data elements required by e-GRRT to calculate GHG quantities associated with the complete combustion or oxidation of that product is incomplete. For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validation" link above. A status of "Complete" for a given product does not necessarily mean that all required information has been entered, only that all data elements required to calculate GHG quantities associated with the complete combustion or oxidation of that product are complete. See the Data Completeness validation messages for details about any incomplete data by clicking the "View Validation" link above. (Note, if there are no validation messages for this subpart you will not see the "View Validation" link above.)

Find the table titled "GHG SUMMARY" and click OPEN.

Click image to expand

Facility ABC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
[Subpart Overview](#) [Select Methodology](#)

CO₂ QUANTITIES CALCULATION METHODOLOGY
 Use this page to select a GHG quantities calculation methodology. For additional information about GHG quantities calculation methodologies, please use the e-GRRT Help link(s) provided.

* denotes a required field

Select a GHG Quantities * ☒ Methodology 1 (Eq. NN-1): Use a default higher heating value and CO₂ emission factor -- or use a reporter-specified value or factor provided they are developed using methods outlined in §90.404 of the MRR.

☐ Methodology 2 (Eq. NN-2): Use a default CO₂ emission factor -- or use a reporter-specified factor provided it is developed using methods outlined in §90.404 of the MRR.

[CANCEL](#) [BACK](#) [NEXT](#)

Use the radio buttons to select the methodology used to calculate CO₂ quantities from natural gas supplied.

Methodology 1 uses a higher heating value and CO₂ emissions factor based on heat content to calculate CO₂ quantities associated with natural gas supplied.

Methodology 2 uses a CO₂ emissions factor based on product volume to calculate CO₂ quantities associated with natural gas supplied.

Based on your selection, e-GRRT will use either Equation NN-1 (if Methodology 1 is selected) or Equation NN-2 (if Methodology 2 is selected) to calculate CO₂ associated with natural gas supplied.

When finished, click NEXT.

Step A2.1 - Equation NN-1 Summary and Results

This section provides instructions for users that selected Methodology 1. If you selected Methodology 2, skip to Step A2.2 - Equation NN-2 Summary and Results.

Click image to expand

United States Environmental Protection Agency

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

e-GGRT Help

Using e-GGRT for Subpart NN reporting

Facility ABC (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Natural Gas • Eq. NN-6

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY

Equation NN-6: $CO_2 = \sum CO_{2,1} - \sum CO_{2,3} - \sum CO_{2,4} - \sum CO_{2,5}$

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

Product	CO _{2,1}	CO _{2,3}	CO _{2,4}	CO _{2,5}	Result
Natural Gas			0		Incomplete

PREVIOUS NEXT

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2010 R.45 | NN-2

If you selected Methodology 1 in Step A1, e-GGRT will guide you to the page containing Subpart NN Equation NN-6. To get started, click NEXT.

Click image to expand

United States Environmental Protection Agency

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

e-GGRT Help

Using e-GGRT for Subpart NN reporting

Suppliers of Natural Gas and Natural Gas Liquids (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-1

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-1)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
 - Fuel: Annual Volume of Natural Gas Received at the City Gate(s)
 - HHV and EF: Higher Heating Value and Emission Factor
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY

Equation NN-1: $CO_2 = 1 \times 10^3 * \sum \text{Fuel} * \text{HHV} * \text{EF}$

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

Year	Product	Fuel	HHV	EF	Calculated Result
2010	Natural Gas		1.028	53.02	Incomplete — View Validation

What result do you want to report to EPA?

☒ Use the calculated result rounded

☐ Enter my own result (value will be rounded)

BACK NEXT

Paperwork Reduction Act Burden Statement | Contact Us

e-GGRT RY2010 R.45 | NN-4-LDC

e-GGRT will guide you to the Equation NN-1 overview page where you can use the radio buttons to indicate the source of reported GHG quantities associated with natural gas received at your city gate stations. You can either use the calculated result, or choose to enter your own result.

If you elect to enter your own result, enter the quantity of CO₂ associated with the natural gas received at city gate stations (in metric tons of CO₂) in the space provided, then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-1

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- Fuel: Annual Volume of Natural Gas Received at the City Gate(s)**
- HHV and EF: Higher Heating Value and Emission Factor
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

ANNUAL VOLUME OF NATURAL GAS RECEIVED AT THE CITY GATE(S)

Total annual volume of natural gas received at the city gate(s) (Mscf)

Days in reporting year for which substitute data procedures were used (days)

Industry standard used to measure the volume

[#BACK](#) [NEXT>](#)

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In the spaces provided, enter the total annual volume of natural gas received at city gate stations (in thousand standard cubic feet) and the number of days during the reporting year for which substitute data procedures were used to determine this quantity.

Then use the drop-down menu to select the industry standard used to measure the volume.

When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-1

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- Fuel: Annual Volume of Natural Gas Received at the City Gate(s)**
- HHV and EF: Higher Heating Value and Emission Factor**
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

HIGHER HEATING VALUE

Higher heating value (MMBtu/Mscf)

☐ Use default HHV ☒ Use other HHV

Days in reporting year for which substitute data procedures were used (days)

Industry standard used to measure Higher Heating Value

CO₂ EMISSIONS FACTOR

CO₂ emissions factor (kg CO₂/MMBtu)

☐ Use default EF ☒ Use other EF

Days in reporting year for which substitute data procedures were used (days)

Industry standard used to measure CO₂ emissions factor

[#BACK](#) [NN-1 SUMMARY](#) [NEXT>](#)

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Use the radio buttons to indicate your source for the higher heating value and CO₂ emissions factor.

If you elect not to use the default values, in the spaces provided, enter your own higher heating value (million Btu per thousand standard cubic feet) and/or CO₂ emissions factor (in kilograms CO₂ per million Btu) as well as the number of days during the reporting year for which substitute data procedures were used to determine these quantities.

Finally, use the drop-down menus to select the industry standard(s) used to measure the higher heating value and/or CO₂ emissions factor.

When finished, click NEXT.

You may now skip Step A2.2 and move on to Step A3 of these instructions.

Step A2.2 - Equation NN-2 Summary and Results

If you selected Methodology 2 in Step A1, e-GGRT will guide you to the page containing Subpart NN Equation NN-6.

Click image to expand

Facility ABC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview • Natural Gas • Eq. NN-6

CO₂ QUANTITIES CALCULATION
Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-4)

- CO₂ (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂ (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂ (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- CO₂ (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY
Equation NN-6: $CO_2 = \sum CO_{2a} - \sum CO_{2b} - \sum CO_{2c} - \sum CO_{2d}$

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

Product	CO _{2a}	CO _{2b}	CO _{2c}	CO _{2d}	Result
Natural Gas			0		Incomplete

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To get started, click NEXT.

e-GGRT will guide you to the Equation NN-2 overview page where you can use the radio buttons to indicate the source of reported GHG quantities associated with natural gas received at your city gate stations. You can either use the calculated result, or choose to enter your own result.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-LDC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-2

CO₂ QUANTITIES CALCULATION
Equation NN-2 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-4)

- CO₂ (NN-2) CO₂ quantities associated with Natural Gas Received at the City Gate(s)
 - Fuel: Annual Volume of Natural Gas Received at the City Gate(s)
 - EF: Emissions Factor
- CO₂ (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂ (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- CO₂ (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY
Equation NN-2: $CO_2 = \sum Fuel * EF$

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

Year	Product	Fuel	EF	Calculated Result
2010	Natural Gas		0.055	Incomplete — View Validation

What result do you want to report to EPA?
☒ Use the calculated result rounded
☐ Enter my own result (value will be rounded)

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If you elect to enter your own result, enter the quantity of CO₂ associated with the natural gas received at city gate stations (in metric tons of CO₂) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-LCD (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview » Natural Gas » Eq. NN-6 » Eq. NN-2

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

- Equation Summary (NN-6)
 - CO₂: (NN-2) CO₂ quantities associated with Natural Gas Received at the City Gate(s)
 - Fuel: Annual Volume of Natural Gas Received at the City Gate(s)**
 - EF: Emissions Factor
 - CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
 - CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply > 400,000 Thousand scf per Year
 - CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

ANNUAL VOLUME OF NATURAL GAS RECEIVED AT THE CITY GATE(S)

Total annual volume of product received at the city gate(s) (Mscf)

Days in reporting year for which substitute data procedures were used (days)

Industry standard used to measure the volume

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In the spaces provided, enter the total annual volume of natural gas received at city gate stations (in thousand standard cubic feet) and the number of days during the reporting year for which substitute data procedures were used to determine this quantity.

Then use the drop-down menu to select the industry standard used to measure the volume.

When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-LCD (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview » Natural Gas » Eq. NN-6 » Eq. NN-2

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

- Equation Summary (NN-6)
 - CO₂: (NN-2) CO₂ quantities associated with Natural Gas Received at the City Gate(s)
 - Fuel: Annual Volume of Natural Gas Received at the City Gate(s)**
 - EF: Emissions Factor**
 - CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
 - CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply > 400,000 Thousand scf per Year
 - CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

CO₂ EMISSIONS FACTOR

CO₂ emissions factor 0.055 (MT CO₂/Mscf)

☐ Use default EF

☐ Use other EF

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Use the radio buttons to indicate your source for the CO₂ emissions factor.

If you elect not to use the default value, in the spaces provided, enter your own CO₂ emissions factor (in metric tons CO₂ per thousand standard cubic feet) as well as the number of days during the reporting year for which substitute data procedures were used to determine this quantity.

Finally, use the drop-down menu to select the industry standard used to measure the CO₂ emissions factor.

When finished, click NEXT.

Step A3 - Equation NN-3 Summary and Results

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • **Eq. NN-3**

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- Fuel: Annual Volume of Natural Gas Supplied to downstream gas transmission pipelines and other LDCs
- EF: Emission Factor
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply > 400,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY
 Equation NN-3: $CO_2 = \sum Fuel \cdot EF$

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

Year	Product	Fuel	EF	Calculated Result
2010	Natural Gas		0.095	Incomplete — View Validation

What result do you want to report to EPA?
☒ Use the calculated result rounded
☐ Enter my own result (value will be rounded)

[#BACK](#) [NEXT >](#)

On the Subpart NN Equation NN-3 overview page, use the radio buttons to indicate the source of reported CO₂ quantities from natural gas delivered to downstream transmission pipelines or other LDCs.

If you elect to enter your own result, enter the total CO₂ quantity from natural gas delivered to downstream transmission pipelines or other LDCs (metric tons) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • **Eq. NN-3**

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- Fuel: Annual Volume of Natural Gas Supplied to downstream gas transmission pipelines and other LDCs
- EF: Emission Factor
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply > 400,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

ANNUAL VOLUME OF PRODUCT SUPPLIED

Total annual volume of natural gas supplied: 50000000 (mscf)

Days in reporting year for which substitute data procedures were used: 3 (days)

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In the spaces provided, enter the total annual volume of natural gas delivered to downstream transmission pipelines or other LDCs (in thousand standard cubic feet) and the number of days during the reporting year for which substitute data procedures were used to determine this value.

When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-3

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

▷ **Equation Summary (NN-6)**
 ▷ CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
 ▷ CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
 ▷ **Fuel:** Annual Volume of Natural Gas Supplied to downstream gas transmission pipelines and other LDCs
 ▷ **EF: Emission Factor**
 ▷ CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
 ▷ CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

CO₂ EMISSIONS FACTOR
 CO₂ emissions factor: (MT CO₂/Mscf)
☒ Use default EF
☐ Use other EF

[BACK](#) [NN-3 SUMMARY](#) [NEXT](#)

Use the radio buttons to indicate your source for the CO₂ emissions factor.

If you elect not to use the default value, enter your own CO₂ emissions factor (in metric tons CO₂ per thousand standard cubic feet) and the number of days missing data procedures were used to determine this value in the space provided.

Then use the drop-down menu to select the industry standard used to measure the volume.

When finished, click NEXT.

Step A4 - Equation NN-4 Summary and Results

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-4

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

▷ **Equation Summary (NN-6)**
 ▷ CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
 ▷ CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
 ▷ **CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year**
 ▷ **Fuel:** Annual Volume of Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
 ▷ **EF:** Emission Factor
 ▷ CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY
 Equation NN-4: $CO_2 = \sum \text{Fuel} \cdot EF$
 Hover over an element in the equation above to reveal a definition of that element.

Year	Product	Fuel	EF	Calculated Result
2010	Natural Gas	0	0.055	0

What result do you want to report to EPA?
☒ Use the calculated result rounded (0 metric tons)
☐ Enter my own result (value will be rounded)

[BACK](#) [NEXT](#)

On the Subpart NN Equation NN-4 overview page, use the radio buttons to indicate the source of reported GHG quantities from natural gas delivered to end-users that receive a supply greater than or equal to 460,000 thousand standard cubic feet per year.

If you elect to enter your own result, enter the CO₂ quantity associated with natural gas delivered to end-users that receive a supply greater than or equal to 460,000 thousand standard cubic feet per year (in metric tons) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

United States Environmental Protection Agency

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HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Facility ABC (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-4

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas delivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply > 460,000 Thousand scf per Year
- Fuel: Annual Volume of Natural Gas Received by End-users that Receive a Supply > 460,000 Thousand scf per Year**
- EF: Emission Factor
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

REGISTERED METERS

Container	Meter Number	EIA Number	Fuel Volume
Example End-User	7		4,000,000

ANNUAL VOLUME OF PRODUCT SUPPLIED

Sum of annual volumes of natural gas supplied for all registered meters: 4,000,000 (Mscf)

Navigation: BACK NEXT

Subpart NN requires you to enter the following information for each meter registering a supply equal to or greater than 460,000 thousand standard cubic feet during the reporting year:

- Customer Name
- Customer Address (street address, city, state, zip code)*
- Meter Number
- Customer's EIA identification number (if known)**
- The annual volume of natural gas delivered to the meter (in thousand standard cubic feet)

* Note that you should report the customer's physical address, if the physical address is known. Should a facility you deliver gas to not have a physical address, the facility's mailing address may be used.

** Note that LDCs are only required to report this information if known. The EIA identification number referenced here is a number assigned to electric power plants who report on EIA Form EIA-923 (Power Plant Operations Report). Each facility who reports on this form is assigned a "Plant ID" number by EIA, which is a unique number for each power generating facility. This identification number is from 1 to 5 digits in length and can be found in the files under "Downloads" located at: http://www.eia.gov/cneaf/electricity/page/eia906_920.html. Reporting of this identification number is not required.

To add a meter, click ADD METER. If you did not deliver 460,000 thousand standard cubic feet of natural gas to any meters during the reporting year, you may click NEXT and proceed to section A5 of these instructions.

Click image to expand

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

R H H Environmental

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids (2011)

Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-4

ADD OR EDIT A METER

Enter information for each meter registering supply equal to or greater than 460,000 mscf during the calendar year.

METER DETAILS

Customer Name *

Customer Address *

(street address, city, state, zip code)

Meter Number *

Customer's EIA Identification number *

Annual volume of natural gas delivered to meter (Mscf)

Navigation: CANCEL SAVE

For each meter, enter the requested data.

When finished, click SAVE.

Click image to expand

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Peter Kobylek | My Profile | Logout

e-GGRT Help

Using e-GGRT for Subpart NN Reporting

Facility ABC (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-4

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- Fuel: Annual Volume of Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year**
- EF: Emission Factor
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

REGISTERED METERS

Container	Meter Number	LIA Number	Fuel	Delete
Tank	7		4,000,000	X

ADD Meter

ANNUAL VOLUME OF PRODUCT SUPPLIED

Sum of annual volumes of natural gas supplied for all registered meters: 4,000,000 (Mscf)

BACK NEXT

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To edit the details of a particular meter, click EDIT.

To add another meter, click ADD METER and repeat the process shown above.

Once the required information has been entered for all meters, click NEXT.

Click image to expand

United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME FACILITY REGISTRATION FACILITY MANAGEMENT DATA REPORTING

Help, Matt Hill | My Profile | Logout

e-GGRT Help

Using e-GGRT for Subpart NN Reporting

Suppliers of Natural Gas and Natural Gas Liquids (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-4

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 400,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 400,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year
- Fuel: Annual Volume of Natural Gas Received by End-users that Receive a Supply ≥ 400,000 Thousand scf per Year**
- EF: Emission Factor**
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

CO₂ EMISSIONS FACTOR

CO₂ emissions factor: (MT CO₂/Mscf)

☒ Use default EF

☐ Use other EF

BACK NN-4 SUMMARY NEXT

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e-GGRT RV2010.R.45 | NN-3

Use the radio buttons to indicate your source for the CO₂ emissions factor.

If you elect not to use the default value, enter your own CO₂ emissions factor (in metric tons CO₂ per thousand standard cubic feet) and the number of days substitute data procedures were used to determine this value in the space provided.

Then use the drop-down menu to select the industry standard used to measure the volume.

When finished, click NEXT.

Step A5 - Equation NN-5 Summary and Results

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview » Natural Gas » Eq. NN-4 » **Eq. NN-5**

CO₂ QUANTITIES CALCULATION
 Equation NN-5 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-5)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year.**
 - Fuel: Fuel volume 1
 - Fuel: Fuel volume 2
 - EF: Emissions Factor

SUMMARY
 Equation NN-5: $CO_2 = [Fuel_1 + Fuel_2] \times EF$

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

Year	Product	Fuel1	Fuel2	EF	Calculated Result
2010	Natural Gas		0	0.005	Incomplete — View Validation

What result do you want to report to EPA?
☐ Use the calculated result rounded
☐ Enter my own result (value will be rounded)

[+BACK](#) [NEXT+](#)

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On the Subpart NN Equation NN-5 overview page, use the radio buttons to indicate the source of reported CO₂ quantities from the net quantity of natural gas that is liquefied and/or stored/removed from storage and received from local production by the LDC within the reporting year.

If you elect to enter your own result, enter your CO₂ quantity from the net quantity of natural gas that is liquefied and/or stored/removed from storage and received from local production by the LDC within the reporting year (in metric tons) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview » Natural Gas » Eq. NN-4 » **Eq. NN-5**

CO₂ QUANTITIES CALCULATION
 Equation NN-5 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-5)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year.

Fuel: Fuel volume 1

- Fuel: Fuel volume 2
- EF: Emissions Factor

FUEL 1, ANNUAL VOLUME

Total annual volume of natural gas received at the city gate and stored on-system or liquefied and stored

Days in reporting year for which substitute data procedures were used

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In the spaces provided, enter the total annual volume of natural gas received at the city gate and stored on-system or liquefied and stored (in thousand standard cubic feet) and the number of days during the reporting year for which substitute data procedures were used to determine this quantity.

When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-5

CO₂ QUANTITIES CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂: (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
- CO₂: (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

Fuels: Fuel volume 1
EF: Emissions Factor

INPUT 2 SUMMARY

Fuels = [Fuels₁ + Fuels₂ + Fuels₃]

FUEL2a
 Annual volume of vaporized/liquefied natural gas produced at on-system vaporization facilities for delivery on the distribution system that is not accounted for in the volume collected under NN-1 or NN-2
 Days in reporting year for which substitute data procedures were used

FUEL2b
 Annual volume of natural gas withdrawn from on-system storage that is not delivered to the city gate for delivery on the distribution system
 Days in reporting year for which substitute data procedures were used

FUEL2c
 Annual volume of natural gas delivered directly to the LDC systems from producers or natural gas processing plants from local production
 Days in reporting year for which substitute data procedures were used

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

Enter the following information in the spaces provided:

- The annual volume of vaporized liquefied natural gas produced at on-system vaporization facilities for delivery on the distribution system (in thousand standard cubic feet).
- The annual volume of natural gas withdrawn from on-system storage (that is not delivered to the city gate) for delivery on the distribution system (in thousand standard cubic feet).
- The annual volume of natural gas delivered directly to the LDC systems from producers or natural gas processing plants from local production (in thousand standard cubic feet).
- The number of days in the reporting year for which substitute data procedures were used for each of the three volumes.

When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-LCD (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Natural Gas • Eq. NN-6 • Eq. NN-5

CO₂ QUANTITIES CALCULATION
 Equation NN-5 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-5)

- CO₂: (NN-2) CO₂ quantities associated with Natural Gas Received at the City Gate(s)
- CO₂: (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂: (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
- CO₂: (NN-6) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

Fuels: Fuel volume 1
EF: Emissions Factor

CO₂ EMISSIONS FACTOR
 CO₂ emissions factor: 0.055 (MT CO₂/Mscf)
☐ Use default EF
☐ Use other EF

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

Use the radio buttons to indicate your source for the CO₂ emissions factor.

If you elect not to use the default value, enter your own CO₂ emissions factor (in metric tons CO₂ per thousand standard cubic feet) and the

number of days during the reporting year that substitute data procedures were used to determine this value in the space provided.

Then use the drop-down menu to select the industry standard used to measure the volume.

When finished, click NEXT.

Step A6 - Equation NN-6 Summary and Results

e-GGRT will use the calculated results from Equations NN-1 or NN-2, NN-3, NN-4, and NN-5 in Equation NN-6 to calculate the CO₂ quantity associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year.

Review the results of each individual equation and the result of equation NN-6.

Note that the value for CO₂ may either be positive or negative depending on whether more natural gas was withdrawn from storage/received from local production or placed into storage during the reporting year.

Click image to expand

Facility: ABC (2010)

Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids

Subpart Overview • Natural Gas • Eq. NN-6

CO₂ QUANTITIES CALCULATION

Equation NN-6 will calculate CO₂ quantities associated with the combustion or oxidation of natural gas supplied to end-users that receive less than 460,000 thousand standard cubic feet (mscf) per year. This is done by subtracting the total CO₂ that would result from natural gas redelivered to transmission pipelines or other LDCs, natural gas delivered to end-users that receive a supply greater than or equal to 460,000 mscf per year and the net natural gas that is liquefied and/or stored and not used for deliveries by the LDC within the reported year from the total CO₂ associated with the natural gas received at the city gate(s) and from local production. For additional information about the CO₂ quantities calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-6)

- CO₂c (NN-1) Potential CO₂ Quantities associated with Natural Gas Received at the City Gate(s)
- CO₂s (NN-3) Potential CO₂ Quantities associated with Natural Gas delivered to Transmission Pipelines or Other LDCs
- CO₂d (NN-4) Potential CO₂ Quantities associated with Natural Gas Received by End-users that Receive a Supply ≥ 460,000 Thousand scf per Year
- CO₂e (NN-5) Potential CO₂ Quantities associated with product received that bypassed the city gate(s) such as natural gas received from local production and the Net Natural Gas that is Liquefied and/or Stored/Removed from storage by the LDC within the Reported Year

SUMMARY

Equation NN-6: $CO_2 = \sum CO_{2c} + \sum CO_{2s} + \sum CO_{2d} - \sum CO_{2e} - \sum CO_{2f}$

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

Product	CO ₂ c	CO ₂ s	CO ₂ d	CO ₂ e	CO ₂ f	Result
Natural Gas			0			Incomplete

FINISHED NEXT

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e-GGRT RY2010 R 45 | NN-2

When you are satisfied that all entered data is correct, click FINISHED.

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See Also

Screen Errors

[Using e-GGRT to Prepare Your Subpart NN Report](#)
[Subpart NN Summary Information for this Supplier](#)
[Subpart NN Miscellaneous Information](#)
[Subpart NN LDC GHG Information](#)
[Subpart NN Fractionator GHG Information](#)
[Subpart Validation Report](#)

Subpart NN Fractionator GHG Information

This page provides a step-by-step description of how to enter Subpart NN GHG data for NGL Fractionators.

The GHG information required for NGL Fractionators includes four steps:

- [Step B1 - Indicate NGL Products Supplied](#)
- [Step B2 - Calculation Methodology](#)
- Step B3:
 - [Step B3.1 - Equation NN-1 Summary and Results](#)
 - OR
 - [Step B3.2 - Equation NN-2 Summary and Results](#)
- [Step B4 - Equation NN-7 Summary and Results](#)
- [Step B5 - Equation NN-8 Summary and Results](#)

The steps required to complete your fractionator report include the use of either Step B3.1 or Step B3.2, but not both.

Your selection of a calculation methodology in Step B1 will determine whether e-GRRT uses Step B3.1 or Step B3.2 to calculate CO₂ quantities from each NGL product supplied.

Each step is described below.

Step B1 - Indicate NGL Products Supplied

Click image to expand

The screenshot shows the e-GRRT interface for Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids. The page includes a sidebar with navigation links, a main content area with an overview of reporting requirements, and a table for GHG Summary. The table lists products: Ethane, Propane, Butane, Isobutane, and Pentanes Plus, all with a status of 'Incomplete'. A 'Supplier Type' dropdown is set to 'Fractionator of natural gas liquids'. Below the table, there are tabs for 'Natural Gas Received (Mcf)', 'Y-Grade Bulk NGLs Received (bbl)', and 'Propane Odorized and Delivered (bbl)'. A 'Facility Overview' link is also present.

Products	CO ₂ (metric tons)	Status	Action
<input checked="" type="checkbox"/> Ethane		Incomplete	OPEN
<input checked="" type="checkbox"/> Propane		Incomplete	OPEN
<input checked="" type="checkbox"/> Butane		Incomplete	OPEN
<input checked="" type="checkbox"/> Isobutane		Incomplete	OPEN
<input checked="" type="checkbox"/> Pentanes Plus		Incomplete	OPEN
Total		Incomplete	

First, you must select the product types supplied by your fractionator. Click this link to view [definitions of these products](#).

By default, all products will be selected for you. To deselect a product that you do not supply locate the check box to the left of the name of the product and click on it.

Click image to expand

The screenshot shows the 'Deselection of an NGL Product' warning screen. It informs the user that by deselecting Ethane, they are declaring that they are not a supplier of that product. A warning box states: 'Warning: Deselecting a product will require e-GRRT to delete any data you have already entered for that product during the current reporting year. You will not be able to retrieve any deleted data if you proceed.' The user is prompted to click 'DESELECT' or 'CANCEL'.

This screen provides a warning that by deselecting a particular product, the GHG quantity associated with that product will not be included in the GHG report for this supplier.

If you wish to proceed with deselecting this product, click "DESELECT". If you do supply this product, you would click "CANCEL".

Regardless of which selection you make, you will be returned to the Subpart NN overview page.

Step B2 - Calculation Methodology

Repeat Steps B2 through B5 for each product supplied by your facility.

Click image to expand

Facility ABC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
[Subpart Overview](#)

OVERVIEW OF SUBPART REPORTING REQUIREMENTS FOR NATURAL GAS LIQUIDS (NGL) FRACTIONATORS
 Subpart NN requires affected NGL fractionators to report carbon dioxide (CO₂) quantities that would result from the complete combustion or oxidation of the annual quantity of ethane, propane, normal butane, isobutane and pentanes plus that is sold or delivered to others. First, use this page to identify each NGL product supplied by your facility and then enter Greenhouse gas (GHG) data required by Subpart NN for each NGL product supplied and for your facility. Next, enter the additional miscellaneous information required for NGL fractionators. For additional information about Subpart NN reporting, please use the e-GRRT Help link(s) provided.

* denotes a required field
Subpart NN: View Validation

Supplier Type * Fractionator of natural gas liquids [CHANGE](#)

Products	CO ₂ (metric tons)	Status	
<input checked="" type="checkbox"/> Ethane		Incomplete	OPEN
<input checked="" type="checkbox"/> Propane		Incomplete	OPEN
<input checked="" type="checkbox"/> Butane		Incomplete	OPEN
<input checked="" type="checkbox"/> Isobutane		Incomplete	OPEN
<input checked="" type="checkbox"/> Pentanes Plus		Incomplete	OPEN
Total		Incomplete	

MISCELLANEOUS INFORMATION FOR NGL FRACTIONATORS
 Natural Gas Received (Mscf) Y-Grade Bulk NGLs Received (bb) Propane Odorized and Delivered (bb) [OPEN](#)

[Facility Overview](#)

*You are not a supplier of one of the products listed, click the box to unselect it. Only those products checked will require you to input relevant data.

*A status of "Incomplete" means that one or more data elements that are inputs to one of this subpart's equations are incomplete. As a result, e-GRRT is unable to perform the necessary calculation(s). For details, refer to the Equation Completeness validation messages in your Validation Report by clicking the "View Validator" link above (note: if there are no validation messages for this subpart you will not see this text).

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Find the table titled "GHG SUMMARY" and click OPEN to enter GHG data for a single product.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
[Subpart Overview](#) • [Ethane](#) • [Select Methodology](#)

CO₂ QUANTITIES CALCULATION METHODOLOGY
 Use this page to select a GHG quantity calculation methodology for this NGL product. For additional information about GHG quantity calculation methodologies, please use the e-GRRT Help link(s) provided.

* denotes a required field

Select a GHG Emissions * ☒ Methodology 1 (Eq. NN-1): Use a default higher heating value and CO₂ emission factor -- or use a reporter-specified value or factor provided they are developed using methods outlined in §98.404 of the MRR.
☐ Methodology 2 (Eq. NN-2): Use a default CO₂ emission factor -- or use a reporter-specified factor provided it is developed using methods outlined in §98.404 of the MRR.

[CHANGE](#) [PREVIOUS](#) [NEXT](#)

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Use the radio buttons to select the methodology used to calculate the potential CO₂ quantity associated with the complete combustion or oxidation of this product.

Methodology 1 uses a higher heating value and CO₂ emissions factor based on heat content to calculate the CO₂ quantity associated with this product.

Methodology 2 uses a CO₂ emissions factor based on product volume to calculate the CO₂ quantity associated with this product.

Based on your selection, e-GRRT will use either Equation NN-1 (if Methodology 1 is selected) or Equation NN-2 (if Methodology 2 is selected) to calculate the potential CO₂ quantity associated with this product.

When finished, click NEXT.

Click image to expand

Facility ABC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
[Subpart Overview](#) • [Ethane](#)

CO₂ QUANTITY CALCULATION
 Equation NN-1 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GRRT Help link(s) provided.

Equation Summary (NN-1)
☒ CO₂s (NN-1) CO₂ associated with product supplied
☐ CO₂m (NN-2) CO₂ associated with product received from other fractionators

SUMMARY
 Equation NN-1: CO₂ = CO₂s + CO₂m
 Hover over an element in the equation above to reveal a definition of that element.

Product	CO ₂ s	CO ₂ m	Result
Ethane			Incomplete

[FINISHED](#) [NEXT](#)

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Once you arrive on the Equation NN-8 Summary page, click NEXT

Step B3.1 - Equation NN-1 Summary and Results

This section provides instructions for users that selected Methodology 1 in Step B1. If you selected Methodology 2 in Step B1, skip to Step B3.2: Equation NN-2 Summary and Results.

If you selected Methodology 1 in Step B1, e-GGRT will guide you to the page containing Subpart NN Eq. NN-1 where you can use the radio buttons to indicate the source of reported the CO₂ quantity associated with this product.

Click image to expand

Facility ABC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
Subpart Overview • Ethane • Eq. NN-8 • **Eq. NN-1**

CO₂ QUANTITY CALCULATION
Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂: (NN-1) CO₂ associated with product supplied
 - Fuel: Annual Volume of Ethane Supplied to Downstream Facilities
 - HHV and EF: Higher Heating Value and Emissions Factor
 - CO₂: (NN-7) CO₂ associated with product received from other fractionators

SUMMARY
Equation NN-1: $CO_2 = 1 \times 10^{-2} \cdot \text{Fuel} \cdot \text{HHV} \cdot \text{EF}$
Hover over an element in the equation above to reveal a definition of that element.

Year	Product	Fuel	HHV	EF	Calculated Result
2010	Ethane	4,032	62.64		Incomplete — View Validation

What result do you want to report to EPA?
☒ Use the calculated result rounded
☐ Enter my own result (value will be rounded)

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If you elect to enter your own result, enter the CO₂ quantity associated with this product (in metric tons) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Facility ABC (2011)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids (2011)
Subpart Overview • Ethane • Eq. NN-8 • **Eq. NN-1**

CO₂ QUANTITY CALCULATION
Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂: (NN-1) CO₂ associated with product supplied
 - Fuel: Annual Volume of Ethane Supplied to Downstream Facilities**
 - HHV and EF: Higher Heating Value and Emissions Factor
 - CO₂: (NN-7) CO₂ associated with product received from other fractionators

ANNUAL VOLUME OF PRODUCT SUPPLIED TO ALL USERS
Total annual volume of product supplied to all users:
Days in reporting year for which substitute data procedures were used: (days)

Industry standard used to measure the volume (select one or more):
☐ ASTM standard
☐ API standard
☐ AGA standard
☐ ASME standard
☐ API standard
☐ NIST standard
☐ Industry standard practices
☐ Other

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In the spaces provided, enter the total annual volume of this product supplied (in barrels) and the number of days during the reporting year for which substitute data procedures were used to determine this value.

Use the drop-down menu to select the industry standard(s) used to measure the volume. When finished, click NEXT.

Click image to expand

Facility ABC (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Ethane • Eq. NN-6 • **Eq. NN-1**

CO₂ QUANTITY CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

↳ **Equation Summary (NN-6)**
 ↳ CO₂: (NN-1) CO₂ associated with product supplied
 ↳ **Fuel**: Annual Volume of Ethane Supplied to Downstream Facilities
 ↳ **HHV and EF: Higher Heating Value and Emissions Factor**
 ↳ CO₂: (NN-7) CO₂ associated with product received from other fractionators

HIGHER HEATING VALUE
 Higher heating value: (MMBtu/bbl)
☒ Use default HHV
☐ Use other HHV

CO₂ EMISSIONS FACTOR
 CO₂ emissions factor: (kg CO₂/MMBtu)
☒ Use default EF
☐ Use other EF

[← BACK](#) [NN-1 SUMMARY](#) [NEXT →](#)

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Use the radio buttons to indicate your source for the higher heating value and CO₂ emissions factor.

If you elect not to use the default values, in the spaces provided, enter your own higher heating value (in million Btu per barrel) and/or CO₂ emissions factor (in kilograms of CO₂ per million Btu) as well as the number of days during the reporting year for which substitute data procedures were used to determine these value(s). Use the drop-down menu(s) to select the industry standard(s) used to measure the higher heating value and/or CO₂ emissions factor.

When finished, click NEXT.

You may now skip to Step B4 of these instructions

Step B3.2 - Equation NN-2 Summary and Results

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Isobutane • Eq. NN-8 • **Eq. NN-2**

CO₂ QUANTITY CALCULATION
 Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

↳ **Equation Summary (NN-8)**
 ↳ **CO₂: (NN-2) Potential CO₂ quantities from product supplied to all end users**
 ↳ **Fuel**: Annual Volume of Isobutane Supplied to all end users
 ↳ **EF**: Emissions Factor
 ↳ CO₂: (NN-7) CO₂ associated with product received from other fractionators

SUMMARY
 Equation NN-2: $CO_2 = \sum Fuel * EF$
 Hover over an element in the equation above to reveal a definition of that element.

Year	Product	Fuel	EF	Calculated Result
2010	Isobutane			Incomplete — View Validation

What result do you want to report to EPA?
☒ Use the calculated result rounded
☐ Enter my own result (value will be rounded)

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If you selected Methodology 2 in Step B1, e-GGRT will guide you to the page containing Subpart NN Eq. NN-2 where you can use the radio buttons to indicate the source of the potential CO₂ quantity associated with this product.

If you elect to enter your own result, enter the CO₂ quantity associated with this product (in metric tons) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview » Isobutane » Eq. NN-8 » Eq. NN-2

CO₂ QUANTITY CALCULATION
 Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

- Equation Summary (NN-8)
 - CO₂: (NN-2) Potential CO₂ quantities from product supplied to all end users
 - Fuel: Annual Volume of Isobutane Supplied to all end users**
 - EF: Emissions Factor
 - CO₂: (NN-7) CO₂ associated with product received from other fractionators

TOTAL ANNUAL VOLUME OF PRODUCT SUPPLIED TO ALL USERS

Total annual volume of product supplied:

Days in reporting year for which substitute data procedures were used:

Industry standard used to measure the volume: ☒ GPA

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In the spaces provided, enter the total annual volume of this product supplied (in barrels) and the number of days during the reporting year for which substitute data procedures were used to determine this value.

Use the drop-down menu to select the industry standard used to measure the volume. When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview » Isobutane » Eq. NN-8 » Eq. NN-2

CO₂ QUANTITY CALCULATION
 Equation NN-8 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

- Equation Summary (NN-8)
 - CO₂: (NN-2) Potential CO₂ quantities from product supplied to all end users
 - Fuel: Annual Volume of Isobutane Supplied to all end users**
 - EF: Emissions Factor**
 - CO₂: (NN-7) CO₂ associated with product received from other fractionators

CO₂ EMISSIONS FACTOR

CO₂ emissions factor:

☒ Use default EF ☐ Use other EF

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Use the radio buttons to indicate your source for the CO₂ emissions factor.

If you elect not to use the default value, enter your own CO₂ emissions factor (in metric tons CO₂ per barrel) along with the number of days missing data procedures were used to determine this value in the spaces provided.

Then use the drop-down menu to select the industry standard used to measure this value.

When finished, click NEXT.

Step B4 - Equation NN-7 Summary and Results

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Ethane • Eq. NN-6 • **Eq. NN-7**

CO₂ QUANTITY CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂: (NN-1) CO₂ associated with product supplied
- CO₂: (NN-7) CO₂ associated with product received from other fractionators
- Fuel: Annual Volume of Ethane Received
- EF: Emissions Factor

SUMMARY
 Equation NN-7: $CO_{2N} = \sum Fuel * EF$
 Hover over an element in the equation above to reveal a definition of that element.

Year	Product	Fuel	EF	Calculated Result
2010	Ethane			Incomplete — View Validation

What result do you want to report to EPA?
☒ Use the calculated result rounded
☐ Enter my own result (value will be rounded)

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On the Subpart NN Equation NN-7 overview page, use the radio buttons to indicate the source of the potential CO₂ quantity associated with the quantity of this product received from other fractionators.

If you elect to enter your own result, enter the potential CO₂ quantity associated with this product received from other fractionators (in metric tons) in the space provided then click NEXT. If you choose to use eGGRT to calculate the result for you, simply click NEXT without entering a value.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Ethane • Eq. NN-6 • **Eq. NN-7**

CO₂ QUANTITY CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂: (NN-1) CO₂ associated with product supplied
- CO₂: (NN-7) CO₂ associated with product received from other fractionators
- Fuel: Annual Volume of Ethane Received**
- EF: Emissions Factor

TOTAL ANNUAL VOLUME OF NGL PRODUCT RECEIVED
 Total annual volume of NGL product received:
 Days in reporting year for which substitute data procedures were used:

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In the spaces provided, enter the total annual volume of this product received from other fractionators (in barrels) and the number of days during the reporting year for which substitute data procedures were used to determine this value.

When finished, click NEXT.

Click image to expand

Suppliers of Natural Gas and Natural Gas Liquids-NGL (2010)
Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids
 Subpart Overview • Ethane • Eq. NN-6 • **Eq. NN-7**

CO₂ QUANTITY CALCULATION
 Equation NN-6 will calculate CO₂ quantities associated with the fractionated NGL product delivered to customers by subtracting the total CO₂ quantities from NGL products received from other fractionators from the total CO₂ quantities from NGL products supplied. For additional information about the CO₂ quantity calculations, please use the e-GGRT Help link(s) provided.

Equation Summary (NN-8)

- CO₂: (NN-1) CO₂ associated with product supplied
- CO₂: (NN-7) CO₂ associated with product received from other fractionators
- Fuel: Annual Volume of Ethane Received
- EF: Emissions Factor**

CO₂ EMISSIONS FACTOR
 CO₂ emissions factor:
☒ Use default EF
☐ Use other EF

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Use the radio buttons to indicate your source for the CO₂ emissions factor.

If you elect not to use the default value, use the space provided to enter your own CO₂ emissions factor (in metric tons CO₂ per barrel) and the number of days during the reporting year for which substitute data procedures were used to determine this value.

Use the drop-down menu to select the industry standard used to measure CO₂ emissions factor.

When finished, click NEXT.

Step B5 - Equation NN-8 Summary and Results

e-GGRT will use the calculated results from Equations NN-1 or NN-2, and NN-7 in Equation NN-8 to calculate potential CO₂ quantities associated with each fractionated NGL product delivered to customers.

Review the results of both of these equations as well as the result of equation NN-8.

Click image to expand

The screenshot shows the e-GGRT web application interface. The top navigation bar includes links for HOME, FACILITY REGISTRATION, FACILITY MANAGEMENT, and DATA REPORTING. The main content area is titled 'Subpart NN: Suppliers of Natural Gas and Natural Gas Liquids'. It features a 'CO₂ QUANTITY CALCULATION' section with a summary of Equation NN-8: $CO_2 = CO_{2i} + CO_{2n}$. Below the equation, there is a table with columns for Product, CO_{2i}, CO_{2n}, and Result. The table shows 'Ethane' with 'Incomplete' results. The screen also includes a 'FINISHED' button and a 'NEXT' button.

When you are satisfied that all entered data for this product is correct, click FINISHED.

Next, enter the information for all additional NGL products that you supply by following the procedures described above.

Once you have finished entering data for all products supplied, and clicked FINISHED after each one, you will have completed reporting Subpart NN GHG Information for this fractionator.

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See Also

[Screen Errors](#)

[Using e-GGRT to Prepare Your Subpart NN Report](#)

[Subpart NN Summary Information for this Supplier](#)

[Subpart NN Miscellaneous Information](#)

[Subpart NN LDC GHG Information](#)

[Subpart NN Fractionator GHG Information](#)

[Subpart Validation Report](#)