

Subpart W - Petroleum and Natural Gas Systems

This page provides an overview of Subpart W reporting through e-GGRT. In certain instances, content on this page has been updated for Reporting Year (RY) 2019 and has been noted accordingly.

If you are starting out reporting for Subpart W, you must begin at the facility overview screen. Add Subpart W to the list of subparts you will report and click on the "Open" link next to Subpart W. You will then see the following screen:

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

The screenshot shows the EPA e-GGRT interface for Subpart W reporting. The page title is "Subpart W: Petroleum and Natural Gas Systems (2017)". The main content area is titled "OVERVIEW OF SUBPART REPORTING REQUIREMENTS" and provides instructions on how to report CO₂, CH₄, and H₂O emissions from onshore and offshore petroleum and natural gas production. It includes a "SUBPART W SUMMARY INFORMATION FOR THIS FACILITY" section with two main actions: "1 | DOWNLOAD FORM" and "2 | UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM". The "DOWNLOAD FORM" section has a link to "Subpart W O&G Reporting". The "UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM" section has a "Browse..." button and a "No file selected" message. Below this is a table with columns for "Scheduled Title Name", "Attachment Type", "Date", and "Details". The table is currently empty, showing "No files found".

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart W requires affected facilities to report CO₂, CH₄, and H₂O emissions from onshore and offshore petroleum and natural gas production. If you are subject to other subparts (e.g., Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart W reporting requirements you will first download the Subpart W reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form(s) and e-GGRT will validate the data contained within them. Use the "View Validation" link to review any issues found in your reporting forms. If necessary, make any revisions necessary to your reporting forms and upload the revised reporting forms.

For additional information about Subpart W reporting, please use the e-GGRT Help links provided.

SUBPART W SUMMARY INFORMATION FOR THIS FACILITY

1 | DOWNLOAD FORM

[Subpart W O&G Reporting](#)

2 | UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM

No file selected.

Scheduled Title Name	Attachment Type	Date	Details
No files found.			

[Add Attachments](#)

e-GGRT Help

MLH Resources

Subpart W: Petroleum and Natural Gas Systems (2017)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart W requires affected facilities to report CO₂, CH₄, and N₂O emissions from onshore and offshore petroleum and natural gas production. If you are subject to other subparts (e.g. Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart W reporting requirements you will first download the Subpart W reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form(s) and e-GGRT will validate the data contained within them. Use the "View Validation" link to review any issues found in your reporting forms. If necessary, make any revisions necessary to your reporting forms and upload the revised reporting forms.

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

Annual mass of CO₂ (metric tons)

Annual mass of CH₄ (metric tons)

Annual mass of N₂O (metric tons)

Subpart W: View Validation

SUBPART W SUMMARY INFORMATION FOR THIS FACILITY

1.) DOWNLOAD FORM

▶ [Subpart W GHG Reporting](#)

2.) UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM

Browse... No file selected. **UPLOAD**

Uploaded File Name	Attached By	Date	Delete
No files found.			

↑ [Facility Overview](#)

Subpart W Reporting Form

An integrated reporting form that combines all of the Subpart W segments by source type as listed in 98.236 is available for download at [Reporting Form Instructions](#).

You may also refer to [Optional Calculation Spreadsheet Instructions](#) to download the Subpart W calculation spreadsheet.

Subpart W includes ten industry segments with separate reporting requirements:

- Onshore Petroleum and Natural Gas Production
- Offshore Petroleum and Natural Gas Production
- Onshore Petroleum and Natural Gas Gathering and Boosting
- Onshore Natural Gas Processing
- Onshore Natural Gas Transmission Compression
- Onshore Natural Gas Transmission Pipelines
- Underground Natural Gas Storage
- Liquefied Natural Gas (LNG) Storage
- LNG Import and Export Terminals
- Natural Gas Distribution

Please prepare a separate version of the reporting form for EACH industry segment for which your facility must report. The Subpart W upload page as shown above will allow the user to upload multiple reporting forms. Only one reporting form may be uploaded for each industry segment; if you attempt to upload a reporting form representing an industry segment that has been previously uploaded the new file will over-write the previous file (see the [February 2015 webinar](#) for information about source-specific reporting).

Sample populated reporting forms for each industry segment are available under "Example Files" at [Subpart W XML Reporting Help](#).

The Subpart W RY19 reporting form includes the following worksheets:

- [Subpart W Introduction](#)
- [Onshore Production Facility Level Requirements \(98.236\(aa\)\(1\)\)](#)
- [Facility Overview \(98.236\(aa\)\(2-11\)\)](#)
- [Natural Gas Pneumatic Devices \(98.236\(b\)\)](#)
- [Natural Gas Driven Pneumatic Pumps \(98.236\(c\)\)](#)
- [Acid Gas Removal Units \(98.236\(d\)\)](#)
- [Dehydrators \(98.236\(e\)\)](#)
- [Well Venting for Liquids Unloading \(98.236\(f\)\)](#)
- [Oil and Gas Well Completions and Workovers with Hydraulic Fracturing \(98.236\(g\)\)](#)
- [Gas Well Completions and Workovers without Hydraulic Fracturing \(98.236\(h\)\)](#)
- [Blowdown Vent Stacks \(98.236\(i\)\)](#)
- [Atmospheric Storage Tanks \(98.236\(j\)\)](#)
- [Transmission Storage Tanks \(98.236\(k\)\)](#)
- [Well Testing \(98.236\(l\)\)](#)
- [Associated Gas Venting and Flaring \(98.236\(m\)\)](#)
- [Flare Stacks \(98.236\(n\)\)](#)
- [Centrifugal Compressors \(98.236\(o\)\)](#)
- [Reciprocating Compressors \(98.236\(p\)\)](#)
- [Equipment Leaks \(98.236\(q,r\)\)](#)
- [Offshore Petroleum and Natural Gas Production \(98.236\(s\)\)](#)
- [Enhanced Oil Recovery Injection Pump Blowdown \(98.236\(w\)\)](#)
- [Enhanced Oil Recovery Hydrocarbon Liquids \(98.236\(x\)\)](#)
- [Combustion Equipment at Onshore Petroleum and Natural Gas Production, Onshore Petroleum and Natural Gas Gathering and Boosting, and Natural Gas Distribution Facilities \(98.236\(z\)\)](#)

Reporters should take note of the new items beginning in the RY17 reporting form described below:

There are multiple changes to the Equipment Leaks tab:

- The applicability questions have been reworded for clarity and a new question has been added.
- The leak survey characterization table (Table Q.1) now provides space to provide information about methods used to detect leaks. The table for reporting leak survey data (Table Q.2) now includes a place to report leaks from components in the Onshore Petroleum and Natural Gas Production and Onshore Petroleum and Natural Gas Gathering and Boosting segments.
- Finally, in the table for reporting emissions from components in the Onshore Petroleum and Natural Gas Production and Onshore Petroleum and Natural Gas Gathering and Boosting segments using the population count methodology (Table R.1), the emission source type and the service type columns have been combined for clarity.

New tables have been added on the Associated Gas and Well Testing tabs to allow entry of data elements related to wildcat and delineation wells for which a 2-year reporting delay was claimed on the RY15 reporting form.

Please click [this link](#) for general guidance on how to enter data into the Subpart W reporting forms

>> *Click this link to expand*

Using Reporting Forms: General Guidance

Color Coding
 The reporting forms contain blue input cells, gray informational cells and black deactivated cells. Users should use blue input cells to enter all data specific to their facility, unit, or process. Gray informational cells contain parameter names, column and row headings, equation constants, subtotals and other instructional items. As you progress through a reporting form, you may notice some blue input cells changing to black deactivated cells. Black deactivated cells are not applicable to the user based on previous data entries in the form. Users should not enter data into these cells. Data entered into a deactivated cell will appear in red, bold typeface. If these data are left in the form and submitted to e-GGRT these data will be included in your submitted data once the report is certified and submitted. All cells that are not blue input cells are locked and cannot be modified or do not require data from the user.

	Blue input cell (data entry)
	Gray informational cell (locked)
	Black deactivated cell (not applicable, no data required)
	Deactivated cell with data (data should be deleted)

Stop and Warning Messages
 The reporting forms will display a stop message if the user enters a value that is invalid or a warning message if the user enters a value outside the EPA-estimated range for a particular data element. For invalid data entries (such as text entered where numerical data is required), the stop messages will not allow the user to proceed, and the user must reenter valid data before moving forward. For data entries that are outside the EPA estimated range for a particular data element, the warning messages will alert the user but provide the option to continue if the user deems the entered value to be accurate.

Reporting Unit-Level Data for Multiple Units
 For Subpart W reporters, if you find that the reporting form does not provide sufficient rows for your facility, please use the "supersize" form for your reporting.

Subpart-Specific Form Instructions
 Within each reporting form, two types of instructions are provided to guide users as they complete the form. General table instructions are provided above each table within the form. More specific instructions will appear in little yellow boxes when the user clicks in a blue input data cell.

Using Reporting Forms: General Guidance

Color Coding

The reporting forms contain blue input cells, gray informational cells and black deactivated cells. Users should use blue input cells to enter all data specific to their facility, unit, or process. Gray informational cells contain parameter names, column and row headings, equation constants, subtotals and other instructional items. As you progress through a reporting form, you may notice some blue input cells changing to black deactivated cells. Black deactivated cells are not applicable to the user based on previous data entries in the form. Users should not enter data into these cells. Data entered into a deactivated cell will appear in red, bold typeface. If these data are left in the form and submitted to e-GGRT these data will be included in your submitted data once the report is certified and submitted. All cells that are not blue input cells are locked and cannot be modified or do not require data from the user.

	Blue input cell (data entry)
	Gray informational cell (locked)
	Black deactivated cell (not applicable, no data required)
	Deactivated cell with data (data should be deleted)

Stop and Warning Messages

The reporting forms will display a stop message if the user enters a value that is invalid or a warning message if the user enters a value outside the EPA-estimated range for a particular data element. For invalid data entries (such as text entered where numerical data is required), the stop messages will not allow the user to proceed, and the user must reenter valid data before moving forward. For data entries that are outside the EPA estimated range for a particular data element, the warning messages will alert the user but provide the option to continue if the user deems the entered value to be accurate.

Reporting Unit-Level Data for Multiple Units

For Subpart W reporters, if you find that the reporting form does not provide sufficient rows for your facility, please use the "supersize" form for your reporting.

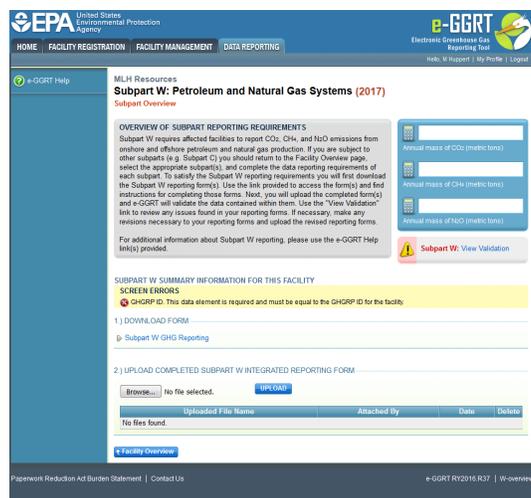
Subpart-Specific Form Instructions

Within each reporting form, two types of instructions are provided to guide users as they complete the form. General table instructions are provided above each table within the form. More specific instructions will appear in little yellow boxes when the user clicks in a blue input data cell.

Completed Subpart W Reporting Forms

After you have successfully uploaded your reporting form, the upload page will be updated to reflect the file you have uploaded. During the upload e-GGRT will generate a validation report which will list potential deficiencies or issues with your reporting form.

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



The screenshot shows the EPA e-GGRT (Electronic Greenhouse Gas Reporting Tool) interface. The header includes the EPA logo and navigation tabs for HOME, FACILITY REGISTRATION, FACILITY MANAGEMENT, and DATA REPORTING. The main content area is titled "Subpart W: Petroleum and Natural Gas Systems (2017)" and includes an "OVERVIEW OF SUBPART REPORTING REQUIREMENTS" section. Below this, there are input fields for "Annual mass of CO2 (metric tons)", "Annual mass of CH4 (metric tons)", and "Annual mass of N2O (metric tons)". A "Subpart W: View Validation" button is visible. A "SCREEN ERRORS" section highlights a "GHGRP ID" error. The interface also features a "DOWNLOAD FORM" section and an "UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM" section with a file upload area and a table for uploaded files.

e-GGRT Help

MLH Resources

Subpart W: Petroleum and Natural Gas Systems (2017)

Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS

Subpart W requires affected facilities to report CO₂, CH₄, and N₂O emissions from onshore and offshore petroleum and natural gas production. If you are subject to other subparts (e.g. Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart W reporting requirements you will first download the Subpart W reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form(s) and e-GGRT will validate the data contained within them. Use the "View Validation" link to review any issues found in your reporting forms. If necessary, make any revisions necessary to your reporting forms and upload the revised reporting forms.

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

Annual mass of CO₂ (metric tons)

Annual mass of CH₄ (metric tons)

Annual mass of N₂O (metric tons)

Subpart W: View Validation

SUBPART W SUMMARY INFORMATION FOR THIS FACILITY

SCREEN ERRORS

GHGRP ID. This data element is required and must be equal to the GHGRP ID for the facility.

1.) DOWNLOAD FORM

[Subpart W GHG Reporting](#)

2.) UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM

Browse... No file selected. **UPLOAD**

Uploaded File Name	Attached By	Date	Delete
No files found.			

[Facility Overview](#)

If you attempt to upload a file but your file is not accepted by e-GGRT it is generally because your file has a critical error or is missing essential data - e-GGRT calls these critical errors **screen errors**. The reason why the file was not acceptable is displayed as a screen error message on the upload page. For an example of a screen error message, see above.

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

EPA United States Environmental Protection Agency | e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

MLH Resources
Subpart W: Petroleum and Natural Gas Systems (2017)
 Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
 Subpart W requires affected facilities to report CO₂, CH₄, and N₂O emissions from onshore and offshore petroleum and natural gas production. If you are subject to other subparts (e.g. Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart W reporting requirements you will first download the Subpart W reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form(s) and e-GGRT will validate the data contained within them. Use the "View Validation" link to review any issues found in your reporting forms. If necessary, make any revisions necessary to your reporting forms and upload the revised reporting forms.

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

SUBPART W SUMMARY INFORMATION FOR THIS FACILITY

1.) DOWNLOAD FORM
 p. Subpart W GHG Reporting

2.) UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM
 Browse... No file selected. **UPLOAD**

Uploaded File Name	Attached By	Date	Delete
MLH Resources Test File for RY16.xls	M Huppert	February 6, 2017	

740.0
Annual mass of CO₂ (metric tons)

740.00
Annual mass of CH₄ (metric tons)

740.000
Annual mass of N₂O (metric tons)

Subpart W: No Validation Messages

[Facility Overview](#)

Paperwork Reduction Act Burden Statement | Contact Us | e-GGRT RY2016.R37 | W-overview

EPA United States Environmental Protection Agency | e-GGRT Electronic Greenhouse Gas Reporting Tool

HOME | FACILITY REGISTRATION | FACILITY MANAGEMENT | DATA REPORTING

Hello, M Huppert | My Profile | Logout

e-GGRT Help

MLH Resources
Subpart W: Petroleum and Natural Gas Systems (2017)
 Subpart Overview

OVERVIEW OF SUBPART REPORTING REQUIREMENTS
 Subpart W requires affected facilities to report CO₂, CH₄, and N₂O emissions from onshore and offshore petroleum and natural gas production. If you are subject to other subparts (e.g. Subpart C) you should return to the Facility Overview page, select the appropriate subpart(s), and complete the data reporting requirements of each subpart. To satisfy the Subpart W reporting requirements you will first download the Subpart W reporting form(s). Use the link provided to access the form(s) and find instructions for completing those forms. Next, you will upload the completed form(s) and e-GGRT will validate the data contained within them. Use the "View Validation" link to review any issues found in your reporting forms. If necessary, make any revisions necessary to your reporting forms and upload the revised reporting forms.

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

SUBPART W SUMMARY INFORMATION FOR THIS FACILITY

1.) DOWNLOAD FORM
 p. Subpart W GHG Reporting

2.) UPLOAD COMPLETED SUBPART W INTEGRATED REPORTING FORM
 Browse... No file selected. **UPLOAD**

Uploaded File Name	Attached By	Date	Delete
MLH Resources Test File for RY16.xls	M Huppert	February 6, 2017	

740.0
Annual mass of CO₂ (metric tons)

740.00
Annual mass of CH₄ (metric tons)

740.000
Annual mass of N₂O (metric tons)

Subpart W: No Validation Messages

[Facility Overview](#)

Paperwork Reduction Act Burden Statement | Contact Us | e-GGRT RY2016.R37 | W-overview

Click on the "Subpart W: View Validation" link to review your validation report. An explanation of the validation report and the process for correcting validation issues prior to submission is presented in [Reporting Form Validation](#)

Once you have addressed the validation issues to the extent you believe necessary and address the requirements if any other applicable subparts you must generate, review, certify, and submit your annual report as described in [How to Submit an Annual Report](#)

Additional Resources:

- [Prior Year Help](#)
- [Subpart W Data Deferred Until March 2015](#)
- [Subpart W Rule Resources](#)
- [Subpart W Rule Language \(eCFR\)](#)
- [Part 98 Terms and Definitions](#)
- [Frequently Asked Questions \(FAQs\)](#)
- [Webinar Slides](#)
- [Additional VOLUNTARY Reporting for Natural Gas STAR Partners](#) *Please note that Gas STAR data is not due until June of each year.*
- [Additional VOLUNTARY Reporting for Methane Challenge Partners](#)