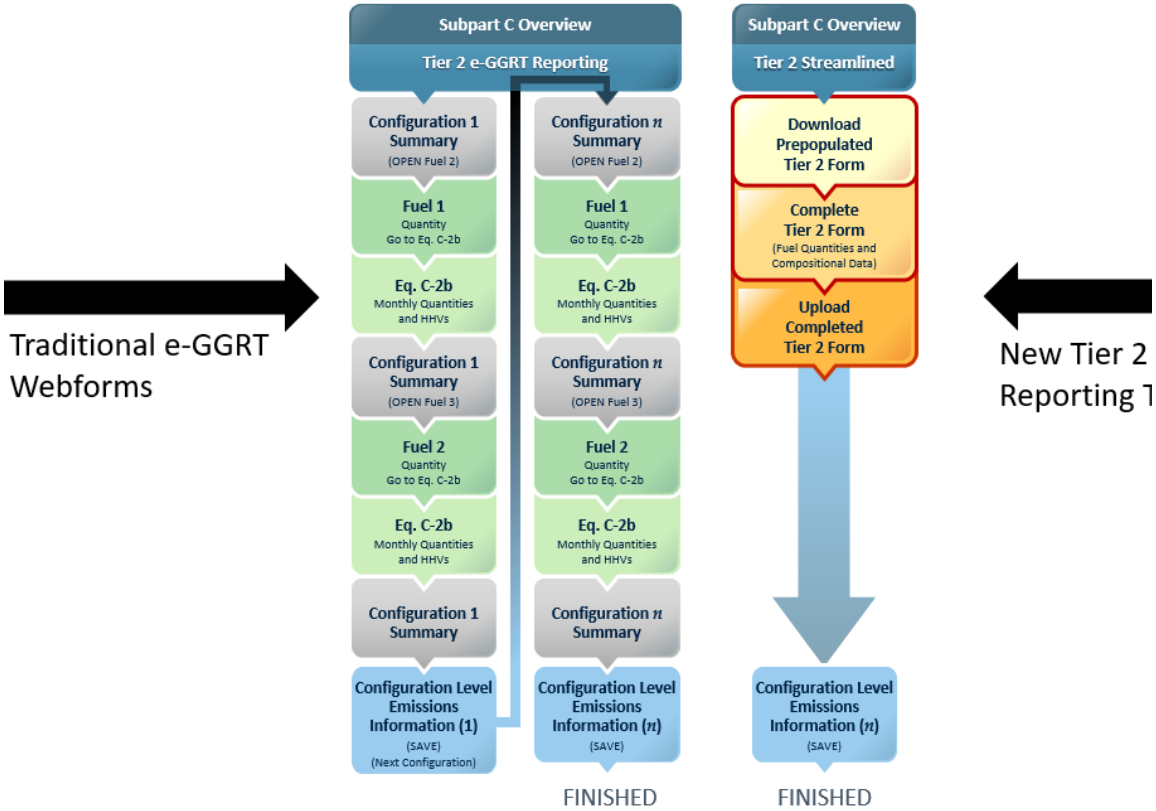
Tier 2 Subpart C Streamlined Reporting



Tier 2

For Subpart C facilities that use the Tier 2 calculation methodology, using the new Tier 2 Streamlined Reporting Tool (i.e., Tier 2 Equation Inputs Bulk Reporting) will allow for simultaneous entry of all fuel-level emissions equation inputs (i.e., fuel quantities and HHVs) and other required information across all configurations in a single Excel Worksheet (with the exception of Tier 2 Blended Fuels). If a facility has configurations and fuels that are eligible for Tier 2 Streamlined Reporting, the pop-up box shown below will appear on the Subpart C Overview Page. This feature is only applicable in Reporting Year 2019 (RY19) and forward, and is available for both fuels and configurations which are carried forward from the prior RY, and new configurations and fuels added in the current RY.

> ⚠ To maximize the time and effort savings available from Tier 2 Equation Inputs Bulk Reporting, users should first ***ensure all of their configurations and fuels are present*** in e-GGRT (either by adding them to the current RY, or as carried forward from the prior RY), and then download the Excel Worksheet. Adding the configurations and fuels in e-GGRT, without entering equation input values for Equations C-2a, C-2b and C-2c, will allow e-GGRT to provide those rows in the streamlined reporting worksheet, thus allowing reporters to use the centralized data entry available in the worksheet and eliminate the need to navigate across several traditional e-GGRT webforms.

>> Click this link to expand

e-GGRT Help

Using e-GGRT for Subpart C reporting

Tier 2 Streamlined Reporting Facility

Subpart C: General Stationary Fuel Combustion (2020)

Subpart C Overview

OVERVIEW OF SUBPART C REPORTING REQUIREMENTS

Subpart C requires affected facilities to report annual carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) emissions from each stationary combustion unit. First, use this page to identify each stationary combustion reporting *configuration* (reporting options listed in 40 CFR 98.36) and then enter fuel usage and related information required by subpart C for each configuration.

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

Subpart C: View Validation

Tier 2 Equation Inputs Bulk Reporting

Use this feature as an alternative way to quickly report all Tier 2 fuel equation inputs (i.e., fuel quantity, HHV), with the exception of Blended Fuels. Learn more

LAUNCH Tier 2

CONFIGURATION SUMMARY

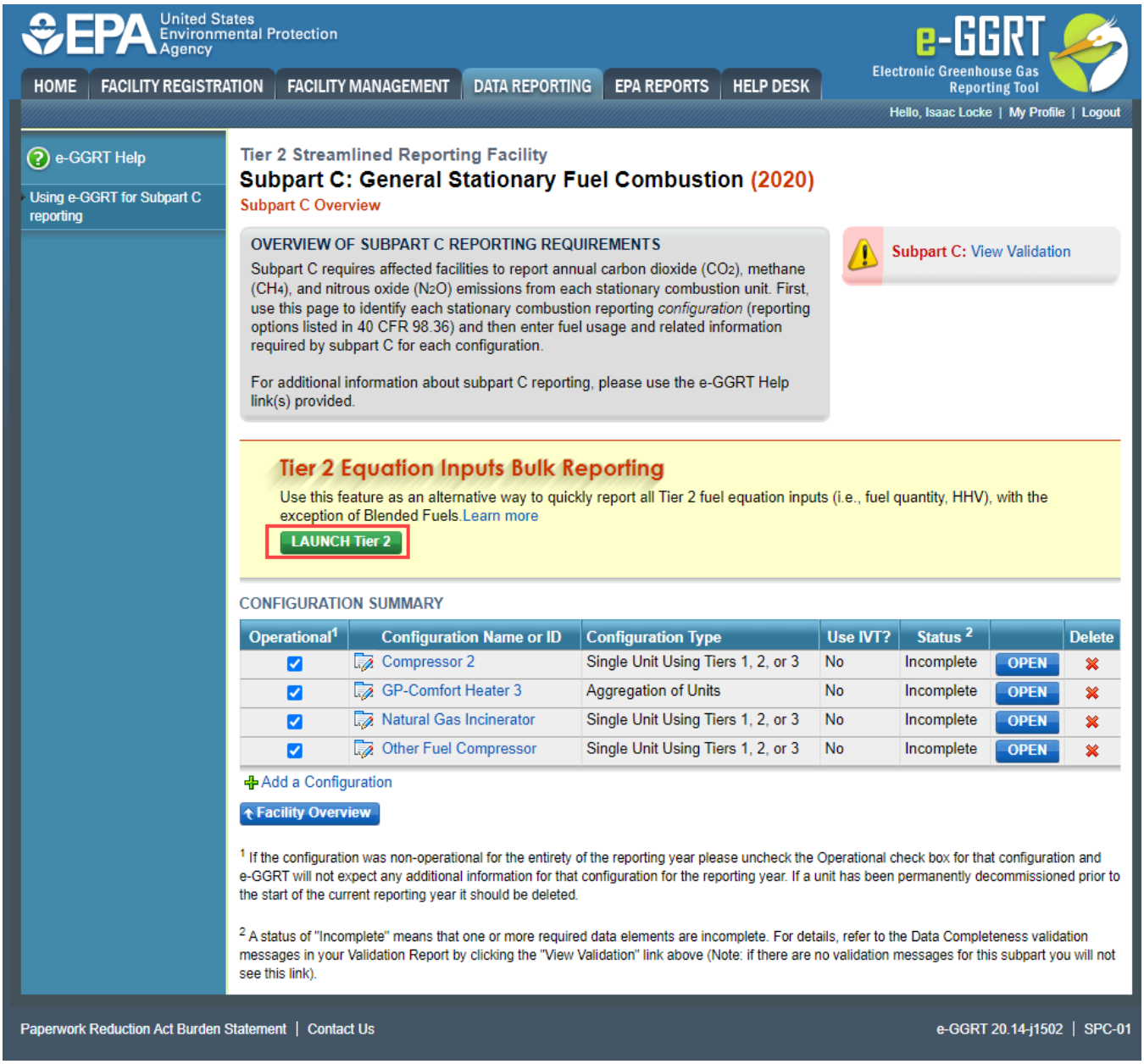
Operational[1]	Configuration Name or ID	Configuration Type	Use IVT?	Status [2]		Delete
☑	Compressor 2	Single Unit Using Tiers 1, 2, or 3	No	Incomplete	OPEN	✖
☑	GP-Comfort Heater 3	Aggregation of Units	No	Incomplete	OPEN	✖
☑	Natural Gas Incinerator	Single Unit Using Tiers 1, 2, or 3	No	Incomplete	OPEN	✖
☑	Other Fuel Compressor	Single Unit Using Tiers 1, 2, or 3	No	Incomplete	OPEN	✖

Add a Configuration

Facility Overview

[1] If the configuration was non-operational for the entirety of the reporting year please uncheck the Operational check box for that configuration and e-GGRT will not expect any additional information for that configuration for the reporting year. If a unit has been permanently decommissioned prior to the start of the current reporting year it should be deleted.

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



After clicking, "LAUNCH Tier 3", users are taken to the Tier 3 Equation Inputs Bulk Reporting Page. From here, users can download a Microsoft Excel spreadsheet which will be pre-populated with all of the eligible information for each configuration.

>> Click this link to expand

e-GGRT Help

Tier 2 Facility

Subpart C: General Stationary Fuel Combustion (2020)

Subpart C Overview » Tier 2 Fuel Streamlined Reporting

Tier 2 Equation Inputs Bulk Reporting

You may use this screen to bulk upload your Tier 2 equation inputs. You may use this feature more than once to enter or update your fuel data.

The downloadable form will always reflect your facility's current Tier 2 fuel data.

Inputs for fuels included in units that use IVT will not be saved by e-GGRT.

If you want to add or delete units or fuels, change equations, etc... please use the normal reporting screens. You can then return here to download a new form which will reflect those changes.

Subpart C: View Validation

1.) DOWNLOAD THE FORM

Please use the link below to download the Tier 2 Equation Inputs Bulk Reporting Form. It will be prepopulated with current information from all of your facility's units and fuels that use the Tier 2 reporting methodology.

Facility 525542 RY2020 Tier 2 Fuel Reporting Form

2.) COMPLETE THE FORM

Complete the Tier 2 Equation Inputs Bulk Reporting Form.

3.) UPLOAD THE COMPLETED FORM

Find/choose your completed Tier 2 Equation Inputs Bulk Reporting Form and click UPLOAD. e-GGRT will validate and process your form.

Choose File Tier 2 Bulk ..._T09_45.xlsx

UPLOAD

CANCEL

After downloading and opening the form, users can enter all fuel-level information and equation inputs into this spreadsheet. The grey highlighted information that is pre-populated in the Microsoft Excel sheet cannot be altered in any way. If a user wishes to make alterations to the configuration or fuel information in the bulk reporting form, they should make the changes in the traditional e-GGRT webforms, and then download a new version of the Microsoft Excel form. The new form will have the updates represented in the grey cells.

Certain Copy and Paste functions can corrupt this form. To avoid this, only use the 'Paste Values (V)' option when pasting into this form

>> *Click this link to expand*

1A) Facility Information

A1	A2
Facility Name:	Tier 2 Facility
GHGRP ID:	525542
Reporting Period:	2020

e-GGRT provided data. Cannot be modified in worksheet

User provided data

1B) Tier 2 Equation Inputs and Reporting Data

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
									Measured HHV			
Unit Name/ID	Configuration Type	Use Inputs Verifier Tool (IVT)?	Equation Used to Calculate CO_2 Emissions	Fuel Type	Mass or Volume of Fuel Combusted (short tons/year); (scf/year); (gallons/year)	Fuel-Specific CH4 Emission Factor (Alternate ONLY for facilities within the IPCC "Energy Industry" category)	HHV Calculation Methodology (Was Equation C-2b used with monthly data to calculate a weighted annual average HHV?)	Annual Average HHV (mmBtu/short ton); (mmBtu/scf); (mmBtu/gallon)	January	February	March	April
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	839866943		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Other Biomass Gases	1519		Annual average	28				
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Tires	5582		Annual average	17.5				
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Wood and Wood Residuals (dry basis	2840165243		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
CP-Extruders	Common Pipe	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	1734566921		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
GP-Coaters	Aggregation of Units	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	104606		Annual average	0.138				
Recovery Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	960816859		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
Recovery Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Solid Byproducts	4650		Annual average	9.45				
Recovery Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Wood and Wood Residuals (dry basis	453		Annual average	17.5				

1A) Facility Information

A1	A2
Facility Name:	Tier 2 Facility
GHGRP ID:	525542
Reporting Period:	2020

e-GGRT provided data. Cannot be modified in worksheet

User provided data

1B) Tier 2 Equation Inputs and Reporting Data

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13
									Measured HHV			
Unit Name/ID	Configuration Type	Use Inputs Verifier Tool (IVT)?	Equation Used to Calculate CO_2 Emissions	Fuel Type	Mass or Volume of Fuel Combusted (short tons/year); (scf/year); (gallons/year)	Fuel-Specific CH4 Emission Factor (Alternate ONLY for facilities within the IPCC "Energy Industry" category)	HHV Calculation Methodology (Was Equation C-2b used with monthly data to calculate a weighted annual average HHV?)	Annual Average HHV (mmBtu/short ton); (mmBtu/scf); (mmBtu/gallon)	January	February	March	April
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	839866943		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Other Biomass Gases	1519		Annual average	28				
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Tires	5582		Annual average	17.5				
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Wood and Wood Residuals (dry basis	2840165243		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
CP-Extruders	Common Pipe	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	1734566921		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
GP-Coaters	Aggregation of Units	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	104606		Annual average	0.138				
Recovery Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Natural Gas (Weighted U.S. Average)	960816859		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	0.00
Recovery Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Solid Byproducts	4650		Annual average	9.45				
Recovery Boiler	Single Unit Using Tiers 1, 2, or 3	No	Equation C-2a	Wood and Wood Residuals (dry basis	453		Annual average	17.5				

Any cell that needs to be completed will be represented by a blue background, and additional limitations are placed in the Microsoft Excel sheet in order to prevent erroneous data entry. Any data element which is closed (has a black fill) needs no data entry. If a user believes that they should enter data into a cell which they do not have access, they are encouraged to check the traditional e-GGRT webforms for the configuration/fuel in the row they believe to be incorrect.

>> *Click this link to expand*

User provided data

B6	B7	B8	B9	B10	B13	B21	B22	B25	B26	B33	B34	B37	B45	B46	B47	B48	B51	B59	B60
				Measured HHV of the Fuel, for Month, or, if Applicable, an Appropriate Substitute Data Value (mmBtu/short ton); (mmBtu/gallon)			Quantity of the Fuel Combusted, for Month (short tons); (scf); (gallons)				Identify each month for which the monthly HHV value is calculated using one or more substitute data values (Yes = substitute data value used; No = substitute data value not used)					Total Mass of Steam Generated by MSW or Solid Fuel Combustion During the Month (pounds steam)			
Mass or Volume of Fuel Combusted (short tons/year); (scf/year); (gallons/year)	Fuel-Specific CH4 Emission Factor (Alternate ONLY for facilities within the IPCC "Energy Industry" category)	HHV Calculation Methodology (Was Equation C-2b used with monthly data to calculate a weighted annual average HHV?)	Annual Average HHV (mmBtu/short ton); (mmBtu/scf); (mmBtu/gallon)	January	April	December	January	April	May	December	January	April	December	Frequency of HHV Determinations	Frequency of HHV Determinations - Specify "Other" Selection	January	April	December	Ratio of the Boiler's Maximum Rated Heat Input Capacity to its Design Rated Steam Output Capacity (mmBtu/pounds steam)
839866943		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	259896457	254033871	256993406	263813617	Yes	No	No	Monthly					
1519		Annual average	28								No	No	No	Semiannually					
5582		Annual average	17.5								No	No	No	Semiannually					
2840165243		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	259896457	254033871	256993406	263813617	No	No	No	Monthly					
1734566921		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	259896457	254033871	256993406	263813617	No	No	No	Monthly					
104606		Annual average	0.138								No	No	No	Semiannually					
960816859		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	87921961	85938671	86939870	89247121	No	No	No	Monthly					
4650		Annual average	9.45								No	No	No	Semiannually					
453		Annual average	17.5								No	No	No	Semiannually					

User provided data

B6	B7	B8	B9	B10	B13	B21	B22	B25	B26	B33	B34	B37	B45	B46	B47	B48	B51	B59	B60
				Measured HHV of the Fuel, for Month, or, if Applicable, an Appropriate Substitute Data Value (mmBtu/short ton); (mmBtu/gallon)			Quantity of the Fuel Combusted, for Month (short tons); (scf); (gallons)				Identify each month for which the monthly HHV value is calculated using one or more substitute data values (Yes = substitute data value used; No = substitute data value not used)					Total Mass of Steam Generated by MSW or Solid Fuel Combustion During the Month (pounds steam)			
Mass or Volume of Fuel Combusted (short tons/year); (scf/year); (gallons/year)	Fuel-Specific CH4 Emission Factor (Alternate ONLY for facilities within the IPCC "Energy Industry" category)	HHV Calculation Methodology (Was Equation C-2b used with monthly data to calculate a weighted annual average HHV?)	Annual Average HHV (mmBtu/short ton); (mmBtu/scf); (mmBtu/gallon)	January	April	December	January	April	May	December	January	April	December	Frequency of HHV Determinations	Frequency of HHV Determinations - Specify "Other" Selection	January	April	December	Ratio of the Boiler's Maximum Rated Heat Input Capacity to its Design Rated Steam Output Capacity (mmBtu/pounds steam)
839866943		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	259896457	254033871	256993406	263813617	Yes	No	No	Monthly					
1519		Annual average	28								No	No	No	Semiannually					
5582		Annual average	17.5								No	No	No	Semiannually					
2840165243		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	259896457	254033871	256993406	263813617	No	No	No	Monthly					
1734566921		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	259896457	254033871	256993406	263813617	No	No	No	Monthly					
104606		Annual average	0.138								No	No	No	Semiannually					
960816859		Weighted average (Equation C-2b)		0.00103	0.00103	0.00103	87921961	85938671	86939870	89247121	No	No	No	Monthly					
4650		Annual average	9.45								No	No	No	Semiannually					
453		Annual average	17.5								No	No	No	Semiannually					

After a user has completed a Microsoft Excel form, they upload it using the "Choose File" link on the Tier 2 Equation Inputs Bulk Reporting Page and then clicking the “UPLOAD” button.

>> *Click this link to expand*

If the uploaded form is missing some required data or the data provided cannot be processed by e-GGRT, the user will receive warning messages as show below. These must be addressed before the form can be completely processed by e-GGRT. Any blanks in the data input reporting form will be processed as a blank data entry and will need to be addressed prior to submitting the report.

>> Click this link to expand

Tier 2 Facility

Subpart C: General Stationary Fuel Combustion (2020)

Subpart C Overview » Tier 2 Fuel Streamlined Reporting

Tier 2 Equation Inputs Bulk Reporting

You may use this screen to perform Tier 2 Fuel Streamlined Reporting. It is an optional, alternative way to enter and/or update your Subpart C Tier 2 fuel data. It may still be necessary to use the normal reporting screens to complete your reporting.

If you need to add or delete units or fuels, edit configuration types, change your use of the Inputs Verifier Tool (IVT), or change which equation is used, please use the normal reporting screens to make those changes. You can then return here to download a new form which will reflect those changes.

Subpart C: View Validation

SUCCESS!

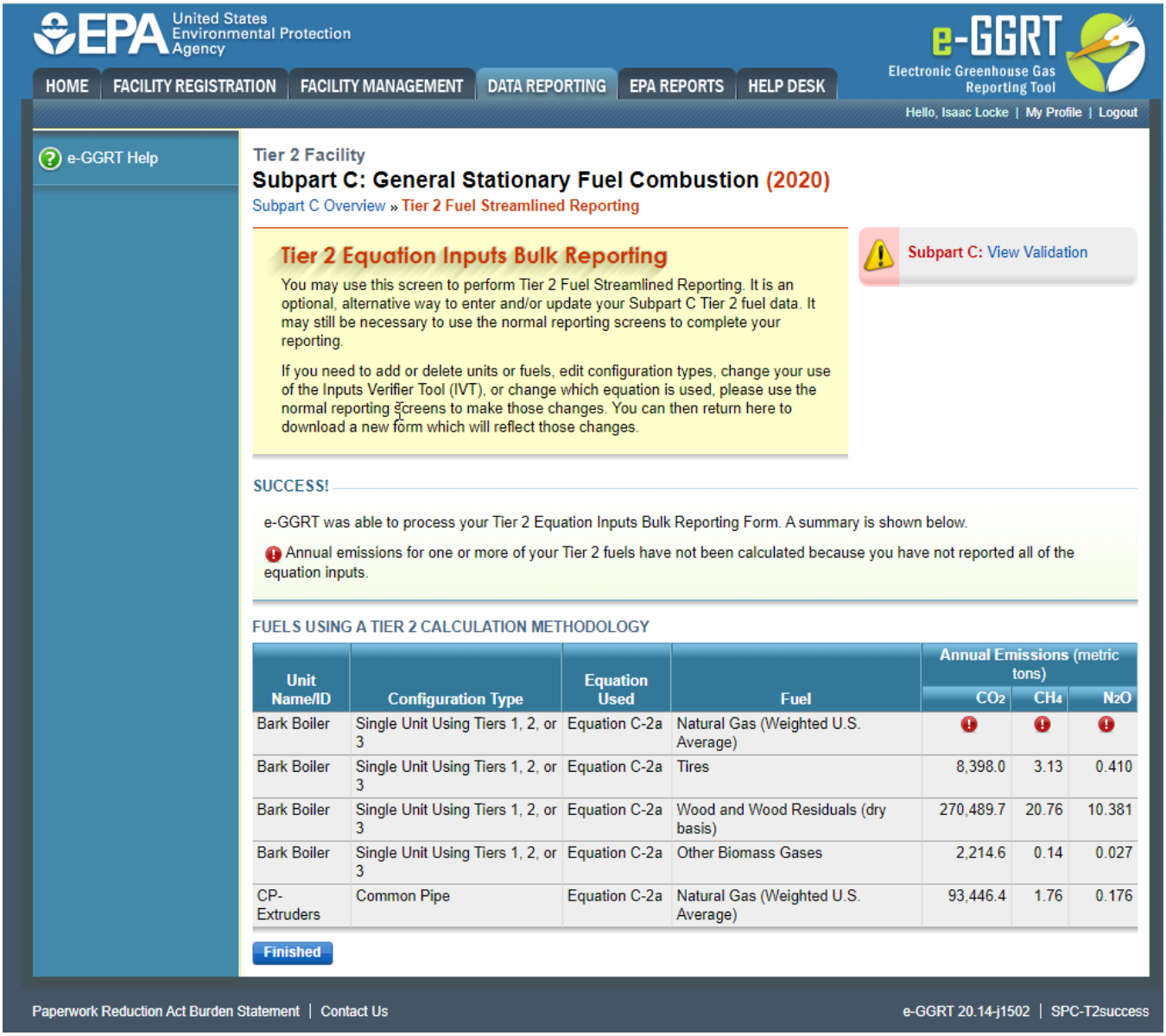
e-GGRT was able to process your Tier 2 Equation Inputs Bulk Reporting Form. A summary is shown below.

Annual emissions for one or more of your Tier 2 fuels have not been calculated because you have not reported all of the equation inputs.

FUELS USING A TIER 2 CALCULATION METHODOLOGY

Unit Name/ID	Configuration Type	Equation Used	Fuel	Annual Emissions (metric tons)		
				CO_2	CH_4	N_2O
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Natural Gas (Weighted U.S. Average)	!	!	!
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Tires	8,398.0	3.13	0.410
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Wood and Wood Residuals (dry basis)	270,489.7	20.76	10.381
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Other Biomass Gases	2,214.6	0.14	0.027
CP-Extruders	Common Pipe	Equation C-2a	Natural Gas (Weighted U.S. Average)	93,446.4	1.76	0.176

Finished



EPA United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

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Tier 2 Facility

Subpart C: General Stationary Fuel Combustion (2020)

Subpart C Overview » Tier 2 Fuel Streamlined Reporting

Tier 2 Equation Inputs Bulk Reporting

You may use this screen to perform Tier 2 Fuel Streamlined Reporting. It is an optional, alternative way to enter and/or update your Subpart C Tier 2 fuel data. It may still be necessary to use the normal reporting screens to complete your reporting.

If you need to add or delete units or fuels, edit configuration types, change your use of the Inputs Verifier Tool (IVT), or change which equation is used, please use the normal reporting screens to make those changes. You can then return here to download a new form which will reflect those changes.

Subpart C: View Validation

SUCCESS!

e-GGRT was able to process your Tier 2 Equation Inputs Bulk Reporting Form. A summary is shown below.

Annual emissions for one or more of your Tier 2 fuels have not been calculated because you have not reported all of the equation inputs.

FUELS USING A TIER 2 CALCULATION METHODOLOGY

Unit Name/ID	Configuration Type	Equation Used	Fuel	Annual Emissions (metric tons)		
				CO_2	CH_4	N_2O
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Natural Gas (Weighted U.S. Average)	!	!	!
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Tires	8,398.0	3.13	0.410
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Wood and Wood Residuals (dry basis)	270,489.7	20.76	10.381
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Other Biomass Gases	2,214.6	0.14	0.027
CP-Extruders	Common Pipe	Equation C-2a	Natural Gas (Weighted U.S. Average)	93,446.4	1.76	0.176

Finished

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After addressing any data errors and successfully uploading a Microsoft Excel sheet, a summary page appears which displays all fuels using the Tier 2 Equation Inputs Bulk Reporting Form. Users should review the annual emissions calculations, and, when satisfied the values are correct, click "Finished" at the bottom of the page.

>> *Click this link to expand*

e-GGRT Help

Tier 2 Facility

Subpart C: General Stationary Fuel Combustion (2020)

Subpart C Overview » Tier 2 Fuel Streamlined Reporting

Tier 2 Equation Inputs Bulk Reporting

You may use this screen to perform Tier 2 Fuel Streamlined Reporting. It is an optional, alternative way to enter and/or update your Subpart C Tier 2 fuel data. It may still be necessary to use the normal reporting screens to complete your reporting.

If you need to add or delete units or fuels, edit configuration types, change your use of the Inputs Verifier Tool (IVT), or change which equation is used, please use the normal reporting screens to make those changes. You can then return here to download a new form which will reflect those changes.

Subpart C: View Validation

SUCCESS!

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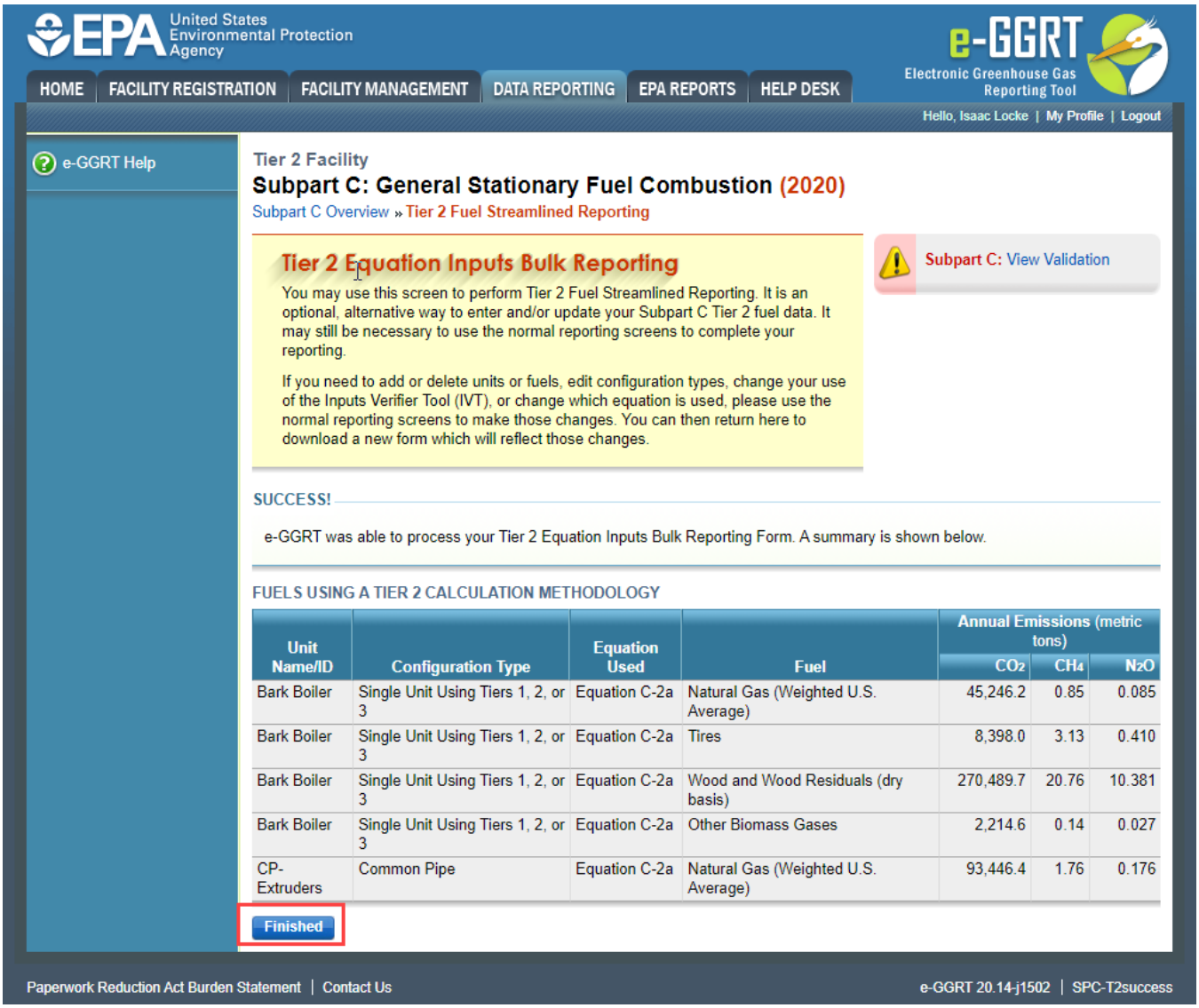
FUELS USING A TIER 2 CALCULATION METHODOLOGY

Unit Name/ID	Configuration Type	Equation Used	Fuel	Annual Emissions (metric tons)		
				CO_2	CH_4	N_2O
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Natural Gas (Weighted U.S. Average)	45,246.2	0.85	0.085
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Tires	8,398.0	3.13	0.410
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Wood and Wood Residuals (dry basis)	270,489.7	20.76	10.381
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Other Biomass Gases	2,214.6	0.14	0.027
CP-Extruders	Common Pipe	Equation C-2a	Natural Gas (Weighted U.S. Average)	93,446.4	1.76	0.176

Finished



United States Environmental Protection Agency

e-GGRT Electronic Greenhouse Gas Reporting Tool

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Tier 2 Facility

Subpart C: General Stationary Fuel Combustion (2020)

Subpart C Overview » Tier 2 Fuel Streamlined Reporting

Tier 2 Equation Inputs Bulk Reporting

You may use this screen to perform Tier 2 Fuel Streamlined Reporting. It is an optional, alternative way to enter and/or update your Subpart C Tier 2 fuel data. It may still be necessary to use the normal reporting screens to complete your reporting.

If you need to add or delete units or fuels, edit configuration types, change your use of the Inputs Verifier Tool (IVT), or change which equation is used, please use the normal reporting screens to make those changes. You can then return here to download a new form which will reflect those changes.

Subpart C: View Validation

SUCCESS!

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FUELS USING A TIER 2 CALCULATION METHODOLOGY

Unit Name/ID	Configuration Type	Equation Used	Fuel	Annual Emissions (metric tons)		
				CO_2	CH_4	N_2O
Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Natural Gas (Weighted U.S. Average)	45,246.2	0.85	0.085
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Bark Boiler	Single Unit Using Tiers 1, 2, or 3	Equation C-2a	Other Biomass Gases	2,214.6	0.14	0.027
CP-Extruders	Common Pipe	Equation C-2a	Natural Gas (Weighted U.S. Average)	93,446.4	1.76	0.176

Finished

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Any remaining information that is required to be reported for eligible configurations, or any configuration that does not use the Tier 2 Equation Inputs Bulk Reporting Form, will still need to be completed using the traditional e-GGRT webforms before the Subpart C reporting is complete.