



California Electronic Greenhouse Gas Reporting Tool

Reporting for Subpart C and Subpart D

Stationary Fuel Combustion Sources

and

Electricity Generation and Cogeneration Units

March 8, 2012

Presentation Slides Available Here:

<http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>

Outline


- When to Use Subpart C and D Modules
- Subpart C Reporting
 - Adding configurations, fuels, emissions
 - Data validation
 - Tool demonstration
- Subpart D Reporting
- Resources
- Q&A


Training Resources

- Reporting Guidance: Applicability, Metering
<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm>
- Tool Training: Registration, Subparts
<http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm>
- Cal e-GGRT Main Help Page
<http://www.ccdsupport.com/confluence/display/calhelp/Home>
- U.S. EPA Detailed Sector Training Slides
<http://www.epa.gov/climatechange/emissions/training.html>
(use as a supplement to ARB summary slides)

Cal e-GGRT Help

<http://www.ccdsupport.com/confluence/display/calhelp/Home>

California Environmental Protection Agency
 **Air Resources Board**

 Cal e-GGRT
California Electronic Greenhouse Gas
Reporting Tool


[Home](#)

Note: The Cal e-GGRT help system includes general instruction on using the California GHG reporting tool. However, the help system may not explain differences between California and U.S. EPA reporting requirements. Please refer to the ARB reporting website for California-specific reporting requirements and additional help.


Home

Welcome to Cal e-GGRT Help


This site contains news, tutorials, FAQs, help and other information about Cal e-GGRT.

 **Cal e-GGRT News**

News feeds and links coming soon!

 **Learn About Cal e-GGRT**

- [Registration Instructions](#)
- [GHG Reporting Instructions](#)
- [ARB Outreach and Training](#)

 **Help**

- [About ARB's Mandatory GHG Emission Reporting and AB32](#)
- [About EPA's GHG Reporting Program and Part 98](#)
- [Harmonization of CARB's Cal e-GGRT and EPA's e-GGRT](#)
- [Frequently Asked Questions \(FAQs\)](#)
- [Known Issues](#)
- [Contact Us](#)

[FAQs](#) – [Glossary](#) – [Contact Us](#) – [ARB GHG Reporting](#)

What is Cal e-GGRT Used For?

- Cal e-GGRT is the system used to report all data required by the GHG mandatory reporting regulation
- The tool contains modules for each sector required to report
 - Also includes modules for Fee Regulation and SF₆
- Multiple users can be associated with a single facility or entity
- Verifiers can be associated with facilities and entities in the tool for data review purposes

When to Use Subpart C Module


- Report all emissions from stationary fuel combustion sources under the subpart C module
- Exceptions to reporting under the subpart C module
 - Units exempted from reporting combustion emissions under 40 CFR 98.30(b)
 - Electricity generating units subject to subpart D
 - Combustion units that exhaust to a CEMS that monitors both combustion emissions and process emissions from another subpart (e.g. a cement kiln that has both process and combustion emissions measured by a CEMS will be reported under Subpart H)
 - Process units that have emissions calculated according to another subpart (this does not generally apply to all combustion located at a facility with process emissions)

When to Use Subpart D Module

- Electricity generating units that are subject to the requirements of the Acid Rain Program/Part 75
- Non-Part-75 electricity generating units report under subpart C

Reporting: Facility Profile and Data Reporting

- Use the Facility Management tab to enter Facility Profile data
- Use Data Reporting tab to report other data



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HOME FACILITY MANAGEMENT DATA REPORTING

Cal e-GGRT Help
General Reporting Information

e-GGRT Greenhouse Gas Data Reporting
Select Facility

ANNUAL GHG DATA REPORTING
You must select a facility to begin using any Data Reporting features, which include: Specifying which subparts the facility will be reporting, entering or updating corporate parent information (subpart A), entering GHG data and viewing validation reports, and lastly, preparing and submitting the Annual Report to ARB.

ARB ID	Facility or Supplier	Annual Report Status	Facility Overview
999999	ARB Test Facility - TEST ONLY - Production Site (Sacramento, CA)	Not generated	OPEN

FACILITIES NOT REPORTING IN 2011:

ARB ID	Facility or Supplier	Annual Report Status	Facility Overview
No facilities found.			

OPEN Facility Overview to begin entering data

Reporting: Adding Subparts

- Add or remove subparts as applicable to reporting entity
- OPEN subpart to complete data entry for each subpart

ARB Test Facility - TEST ONLY - Production Site (2011)
Cal 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).

	<input type="text" value="0"/>	0
CO2 equivalent emissions (excluding biogenic) from subparts C - HH (metric tons)		
	<input type="text" value="0"/>	0
Biogenic CO2 emissions from subparts C - HH (metric tons)		
	<input type="text" value="0"/>	0
CO2 equivalent quantity from supplier categories (metric tons)		
VIEW GHG DETAILS		

REPORT DATA

2011 Reporting Source or Supplier Category	Validation Messages?	Subpart Reporting
Sections 95100-95108 (Subpart A)—General Information	View Messages	OPEN
Sections 95115, 95112 (Subpart C)—Stationary Fuel Combustion	View Messages	OPEN
Section 95113 (Subpart Y)—Petroleum Refineries	View Messages	OPEN

[+ ADD or REMOVE Subparts](#)

SUBPART ATTACHMENTS

Uploaded File Name	Subpart	Uploaded By	Uploaded Date
No subpart attachments			

Reporting: Adding Subparts

- Select applicable subparts

<p>EPA SUBPARTS D - AA</p> <p><input type="checkbox"/> 95112 (Subpart D)—Acid Rain Program EGU Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95110 (Subpart H)—Cement Production Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95116 (Subpart N)—Glass Production Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95114 (Subpart P)—Hydrogen Production Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95120 (Subpart Q)—Iron and Steel Production Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95117 (Subpart S)—Lime Manufacturing Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95118 (Subpart V)—Nitric Acid Production Description (SHOW HIDE)</p> <p>95150-95157 (Subpart W)—Oil and Natural Gas Systems Not currently available for selection. Description (SHOW HIDE)</p> <p><input checked="" type="checkbox"/> 95113 (Subpart Y)—Petroleum Refineries Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95119 (Subpart AA)—Pulp and Paper Manufacturing Description (SHOW HIDE)</p> <p><input type="button" value="CANCEL"/> <input type="button" value="SAVE"/></p>	<p>GENERAL STATIONARY FUEL COMBUSTION</p> <p><input checked="" type="checkbox"/> 95115, 95112 (Subpart C)—Stationary Fuel Combustion Description (SHOW HIDE)</p> <p>SUPPLIER CATEGORIES</p> <p><input type="checkbox"/> 95121 (Subpart MM)—Suppliers of Petroleum Products Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95122 (Subpart NN)—Suppliers of Natural Gas and Natural Gas Liquids Description (SHOW HIDE)</p> <p><input type="checkbox"/> 95123 (Subpart PP)—Suppliers of Carbon Dioxide Description (SHOW HIDE)</p> <p>AB 32 COST OF IMPLEMENTATION FEE REGULATION</p> <p><input type="checkbox"/> 95201-95207—AB 32 Cost of Implementation Fee Regulation Description (SHOW HIDE)</p> <p>SF6 GAS INSULATED SWITCHGEAR</p> <p><input type="checkbox"/> 95350-95359—SF6 Gas Insulated Switchgear Description (SHOW HIDE)</p> <p>ELECTRIC POWER ENTITIES</p> <p>95111—Electric Power Entities Not currently available for selection. Description (SHOW HIDE)</p>
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Subpart A

- Applies to all reporters
- Includes info for electricity generators
- Report electricity and natural gas purchases

ARB Test Facility - TEST ONLY - Production Site (2011)

Sections 95100-95108 (Subpart A): Facility Reporting Information

Select Facility » Facility or Supplier Overview » **Subpart A**

SUBPART A – GENERAL INFORMATION

Each facility or supplier, and for each reporting year is required to supply some basic facility level information, including the entering and reporting of relevant NAICS codes and the entering and reporting of all highest-level United States parent companies.

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

NAICS CODES


NAICS Code	Description	Relevance	Delete
No NAICS codes found.			

[+ ADD a NAICS Code](#)

U.S. PARENT COMPANIES

Parent Company	Address	% of Ownership	Delete
No parent companies found.			

[+ ADD a Parent Company](#)

GHG report start date: * 

GHG report end date: * 

Explanation of any calculation methodology changes during the reporting year:

EPA e-GGRT ID:

Will you be submitting a Full or Abbreviated GHG Report? Full GHG Report Abbreviated GHG Report

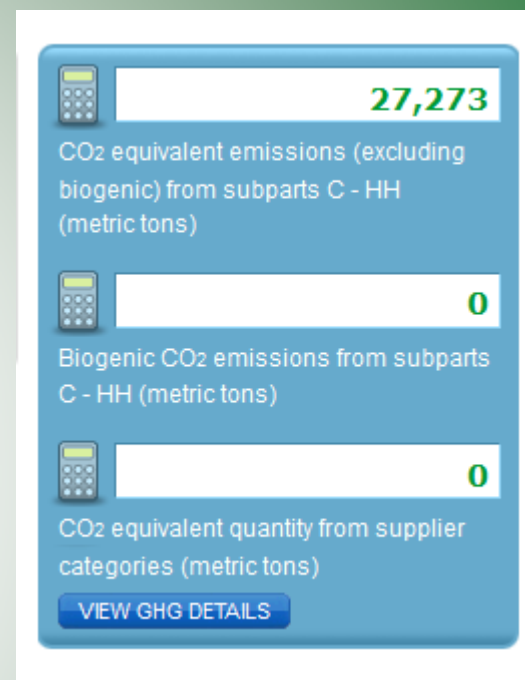
Do reported emissions include emissions from a cogeneration unit? Yes No Not applicable because I am a supplier

ELECTRICITY GENERATION

Does this facility have the capacity to Yes

Emission Roll-ups

- Cal e-GGRT automatically calculates emissions totals for each subpart and aggregates the subpart totals into facility or supplier totals
- Annual emissions are calculated from each applicable subpart, for each of the following GHGs (in metric tons of each gas)
 - Biogenic CO₂
 - CO₂ (excluding biogenic CO₂)
 - CH₄
 - N₂O
 - Each fluorinated GHG
- The subpart totals are rolled-up into the following facility totals
 - Total CO₂ equivalent for all sources and all GHGs with the exception of biogenic CO₂
 - Biogenic CO₂ from all sources
- **Calculator DOES NOT calculate compliance obligation for cap and trade**



Emission Roll-ups

- If certain reporting elements are left blank, the roll-ups may not be performed correctly
- Cal e-GGRT does not double count emissions within each subpart
- Some required reporting fields are not used in the roll-up calculations, but you still need to enter information for these fields
- Roll-ups are calculated independently for each subpart

Some Useful Terminology

- Total CO₂ emissions
 - Measured or calculated value of CO₂ that includes both biogenic and non-biogenic emissions
- Biogenic CO₂ emissions
 - CO₂ emissions from biomass fuels
 - Biogenic portion of CO₂ from fuels with a fossil and biomass component (i.e. MSW and tires)
- Non-Biogenic CO₂ emissions
 - CO₂ emissions from fossil fuels
 - Sorbent CO₂
 - Process CO₂
 - Fossil fuel fraction of CO₂ from fuels with a fossil and biomass component (i.e. MSW and tires)
- Fossil fuel CO₂ emissions
 - CO₂ emissions from fossil fuels
 - Fossil fuel portion of CO₂ from fuels with a fossil and biomass component (i.e. MSW and tires)

Additional Data Reporting

- ARB requires additional data, not required by the U.S. EPA
- Report all data required within Cal e-GGRT, which is harmonized with the ARB regulation
 - Additional identification of biogenic emissions
 - Equation inputs, such as monthly HHV data or carbon content data
 - Additional information for electricity generation or cogeneration facilities



Subpart C Reporting

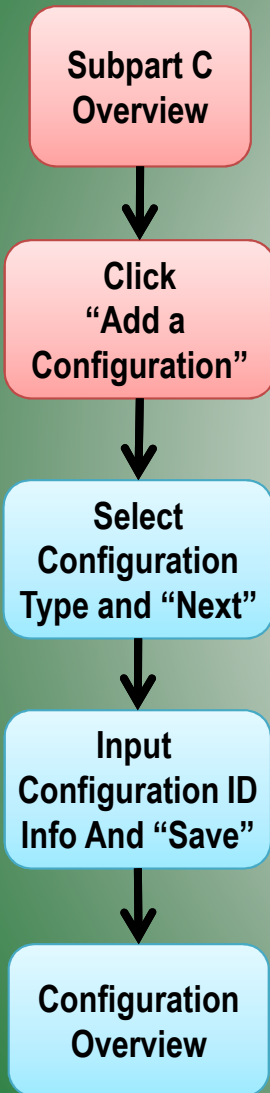
Adding a Subpart C Configuration

- Two Step Process
 1. Configuration Setup
 - Reported once for each configuration
 - Varies by configuration type
 2. Fuel Use and Emissions per Configuration
 - Reported for each fuel combusted in a given configuration
 - Varies by tier and fuel type

Subpart C Configurations

- Subpart C offers 6 different reporting options, known as **Configurations** in e-GGRT
- The different reporting options (configurations) are provided in 40 CFR 98.36(b) – (c)
 - Single Unit Using Tiers 1, 2, or 3 [98.36(b)]
 - Single Unit Using Tier 4 (CEMS) [98.36(b)]
 - Aggregation of Units [98.36(c)(1)]
 - Common Pipe [98.36(c)(2)]
 - Common Stack or Duct (CEMS) [98.36(c)(3)]
 - Alternative Part 75 Reporters [98.36(d)(2)]

Reporting: Subpart C Stationary Combustion



ARB Test Facility - TEST ONLY - Production Site (2011)
95115, 95112 (Subpart C) - Stationary Fuel Combustion
 Subpart C Overview

OVERVIEW OF SUBPART C REPORTING REQUIREMENTS

Subpart C requires affected facilities to report annual carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) emissions from each stationary combustion unit. First, use this page to identify each stationary combustion reporting *configuration* (reporting options listed in §98.36) and then enter emissions information required by subpart C for each configuration.

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

Subpart C: View Validation

CONFIGURATION SUMMARY

Configuration Name or ID	Configuration Type	Status ¹	Delete
PG Single Unit	Single Unit Using Tiers 1, 2, or 3	Incomplete	OPEN
PG Boiler #3	Single Unit Using Tiers 1, 2, or 3	Incomplete	OPEN

Add a Configuration

Facility Overview

Adding a Configuration

- Select appropriate configuration
- Complete descriptive information that follows

ARB Test Facility - TEST ONLY - Production Site (2011)
95115, 95112 (Subpart C) - Stationary Fuel Combustion
[Subpart C Overview](#) » **New Configuration**

SUBPART C REPORTING CONFIGURATIONS

For stationary combustion sources required to report under subpart C, Cal e-GGRT requires a facility to identify which reporting option each unit or group of units will be using to report emissions. The different subpart C reporting options are referred to as *configurations* in Cal e-GGRT. The individual configurations are designed to match the reporting options made available by the rule in 40 CFR 98.36.

Once a configuration is added, Cal e-GGRT will allow the user to enter the required reporting elements for the configuration type selected. A facility may have multiple configuration types and/or multiple configurations of any given type.

For additional information about adding and editing a configuration and the different reporting configurations available, please use the Cal e-GGRT Help link(s) provided.

Note: You cannot change the Reporting Configuration Type for a unit or group after this step without starting over. This would entail losing any emissions data for the current reporting year, if entered.

SELECT A REPORTING CONFIGURATION

Select	Reporting Configuration Type	Calculation Methodology	Rule Reference
<input type="radio"/>	Single Unit Using Tiers 1, 2, or 3	Tier 1, 2, or 3	98.36(b)
<input type="radio"/>	Single Unit Using Tier 4 (CEMS)	Tier 4	98.36(b)
<input type="radio"/>	Aggregation of Units	Tier 1, 2, or 3	98.36(c)(1)
<input type="radio"/>	Common Pipe	Tier 1, 2, or 3	98.36(c)(3)
<input type="radio"/>	Common Stack or Duct (CEMS)	Tier 4	98.36(c)(2)
<input type="radio"/>	Alternative Part 75 Reporters	98.33(a)(5)	98.36(d)(2)

CANCEL

NEXT →

Entering Fuel and Emissions Data

- Open Unit Configuration
 - Click on “ADD a Fuel”
 - Select a fuel
 - Select a Tier
 - Add other fuels as applicable
- Open Fuel Information
 - Select calculation method
 - Enter fuel use data
 - Enter HHV and other data as applicable
 - See U.S EPA training slides for complete walk-through
<http://www.epa.gov/climatechange/emissions/training.html>

Entering Fuel Information

- Open fuel
- Enter required data
- Confirm entered or calculated results

CONFIGURATION-FUEL-PERIOD

Unit or Group Name/ID PG Boiler #3

Configuration Type Single Unit Using Tiers 1, 2, or 3

Fuel (Fuel Type) Natural Gas (Weighted U.S. Average) (Natural Gas)

Reporting Period 01/01/2011 - 12/31/2011

FUEL INPUT DATA FOR EQUATIONS C-1 AND C-8

Mass or Volume of Fuel Combusted Per Year [Fuel] (scf)

Heat [HHV] 0.001028 (mmBtu/scf)

Specific CO2 Emission Factor [EF] 53.02 Kg CO2/mmBtu

Specific CH4 Emission Factor [EF] 0.001 Kg CH4/mmBtu

Specific N2O Emission Factor [EF] 0.0001 Kg N2O/mmBtu

CONFIGURATION INFORMATION

Configuration Type Single Unit Using Tiers 1, 2, or 3

Unit Name/ID PG Single Unit

Description of the Unit or Unit Aggregation

Unit Type RICE (Reciprocating internal combustion engine)

Maximum Rated Heat Input Capacity 55 (mmBtu/hr)

[Edit this Configuration Information](#)

CONFIGURATION-LEVEL EMISSIONS INFORMATION

Total Biogenic CO ₂ Emissions (metric tons)	Total CO ₂ Emissions from Sorbent Usage (metric tons)	Status ¹
		Incomplete OPEN

FUEL-SPECIFIC EMISSIONS INFORMATION (for fuels combusted at this reporting configuration)

Fuel	Calculation Period	Methodology	Status ¹	Delete
Natural Gas (Weighted U.S. Average)	01/01/2011 - 12/31/2011	Tier 1 (Equation C-1)	Incomplete OPEN	×

Check Results

- Results calculated by tool or user entered as applicable

CONFIGURATION-FUEL-PERIOD

Unit or Group Name/ID	PG Boiler #3
Configuration Type	Single Unit Using Tiers 1, 2, or 3
Fuel (Fuel Type)	Natural Gas (Weighted U.S. Average) (Natural Gas)
Reporting Period	01/01/2011 - 12/31/2011

EQUATION C-1 SUMMARY AND RESULT

Equation C-1 $CO_2 = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

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

Emission Type	Fuel (scf)	HHV (mmBtu/scf)	EF	Calculated Result (metric tons)
CO ₂	500,000,000	0.001028	53.02	27,252

What CO₂ result do you want to report to CARB?
 Use the calculated result rounded
 Enter my own result (value will be rounded)

EQUATION C-8 SUMMARY AND RESULTS

Equation C-8 $CH_4 \text{ or } N_2O = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

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

Emission Type	Fuel (scf)	HHV (mmBtu/scf)	EF	Calculated Result (metric tons)	Metric Tons of CO ₂ e
CH ₄	500,000,000	0.001028	0.001	1	11
N ₂ O	500,000,000	0.001028	0.0001	0	16

What CH₄ result do you want to report to CARB?
 Use the calculated result rounded
 Enter my own result (value will be rounded)

What N₂O result do you want to report to CARB?
 Use the calculated result rounded
 Enter my own result (value will be rounded)

Biogenic Emissions

- ARB requires reporting of biogenic emissions totals

CONFIGURATION-LEVEL EMISSIONS INFORMATION			
Total Biogenic CO ₂ Emissions (metric tons)	Total CO ₂ Emissions from Sorbent Usage (metric tons)	Status ¹	
		Incomplete	OPEN

- Include all fuels for the configuration in total

CONFIGURATION

Unit or Group Name/ID PG Boiler #3

Configuration Type Single Unit Using Tiers 1, 2, or 3

ANNUAL CO₂ FOR ALL FUELS

Total annual biogenic CO₂ mass emissions (must equal the sum of calculated annual biogenic CO₂) (metric tons)

SORBENT EMISSIONS

Annual CO₂ emissions from sorbent (metric tons)

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

Uploading Required Supporting Data

- ARB requires reporting of specified additional data that may have been deferred for U.S. EPA reporting
- Complete and upload required spreadsheets provided in tool


CONFIGURATION-FUEL-PERIOD

Unit or Group Name/ID	PG Single Unit
Configuration Type	Single Unit Using Tiers 1, 2, or 3
Fuel (Fuel Type)	Natural Gas (Weighted U.S. Average) (Natural Gas)
Reporting Period	01/01/2011 - 12/31/2011

FUEL INPUT DATA FOR EQUATIONS C-2A AND C-9A

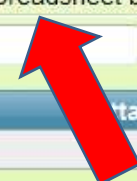
Mass or Volume of Fuel Combusted Per Year [Fuel] (scf)

Annual Average High Heat Value [HHV] Calculated Result from equation C-2b (mmBtu/scf)

 Use Equation C-2b spreadsheet to calculate the Annual Average

Please click the [Equation C-2b \(HHV\) Calculation Spreadsheet](#) link to download the Equation C-2b spreadsheet and attach the completed Equation C-2b calculation spreadsheet below.

Uploaded File Name	Attached By
No files found.	




Data Validation

- Tool provides data validation
- Most messages must be cleared before report submittal
- Clicking on message brings you to where the issue occurred

ARB Test Facility - TEST ONLY - Production Site (2011)
95115, 95112 (Subpart C) - Stationary Fuel Combustion
[Subpart Overview](#) » **Validation Report**

SUBPART C VALIDATION REPORT

This report contains a complete set of validation messages for all data required by this Subpart. For additional information about Validation Reports, please use the Cal e-GGRT Help link(s) provided.

[Print-friendly version](#) 

FACILITY-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Message ³
No facility level validation messages.		

CONFIGURATION-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Unit Name	Message ³
Data Completeness	C125	PG Single Unit	Annual carbon dioxide emissions from combustion of all biomass fuels combined (if any of the units burn fossil AND biomass). This data element is required.
Data Completeness	C128	PG Single Unit	Annual carbon dioxide emissions from sorbent. This data element is required.

FUEL-LEVEL VALIDATION MESSAGES

Validation Type ¹	ID ²	Unit Name	Fuel Name	Message ³
Data Completeness	C146	PG Single Unit	Natural Gas (Weighted U.S. Average)	Annual carbon dioxide emissions from combustion of the specified fuel. This data element is required.

[← Subpart Overview](#)

¹ Validation Types: Cal e-GGRT generates a variety of validation types, defined below:

- Data Completeness: data required for reporting is missing or incomplete.
- Data Quality: data is outside of the range of expected values. The value you have provided is outside the ARB estimated range for this data element. Please double check this value and revise, if necessary. If you believe it to be correct, please submit the value as is.
- Screen Error: a data value or combination of data values prevents Cal e-GGRT from continuing to the next page. Typically, this will not appear on the Validation Report, but instead will be displayed on the data entry page at the time the error was created.



Reporting Electricity Generating Unit

Electricity Generation Reporting

- Section 95112 includes reporting requirements for electricity/thermal generation information. It does not have a counterpart subpart in 40 CFR Part 98.
- Data fields for section 95112 can be found in Subparts A, C, and D.
 - Facility-level energy input-output and energy disposition → Subpart A
 - Unit-Level fuels, emissions, and basic information:
 - Non-Part-75 EGU → Subpart C
 - Part 75 EGU → Subpart D

Facility with Electricity Generating Units

Subpart A:

- General information about the electricity generating facility
- Upload a simplified block diagram (pdf preferred)
- Facility-level energy input-output
- Energy disposition

ELECTRICITY GENERATION

Does this facility have the capacity to generate electricity? Yes No

ELECTRICITY GENERATING UNIT BASIC INFORMATION

CEC ID (if applicable) Separate each ID with a comma if more than one.

EIA ID (if applicable) Separate each ID with a comma if more than one.

FERC QFID (if applicable) Separate each ID with a comma if more than one.

Total Facility Nameplate Generating Capacity: MW

Facility Type

Facility's Energy Disposition

COGENERATION/BIGENERATION OPERATOR

If your facility includes cogeneration/bigeneration units, then please upload a simplified block diagram of the unit(s). (95102(a)(357))

DISPOSITION OF GENERATED ELECTRICITY (IF APPLICABLE)

[+ ADD Retail Provider/Marketer Disposition](#)

[+ ADD End-User Disposition](#)

Generated electricity used for other on-site industrial processes that are not in support of or a part of the power generation system MWh

DISPOSITION OF GENERATED THERMAL ENERGY (IF APPLICABLE)

[+ ADD End-User Disposition](#)

Provide the following if the facility provides thermal energy from a cogeneration or bigeneration unit.

Generated thermal energy used for supporting power production MMBtu

Generated thermal energy used by on-site industrial processes or operations and heating or cooling applications MMBtu

Electricity Generating Units

Subparts C & D:

- Additional data required for EGUs
- Only appears if selected
- Report only applicable fields
- See regulation for full requirements

ELECTRICITY GENERATING UNITS	
Does this Configuration have the capacity to generate electricity?	<input checked="" type="radio"/> Yes <input type="radio"/> No
ELECTRICITY GENERATING UNITS BASIC INFORMATION	
Nameplate Generating Capacity	<input type="text"/> MW
Prime Mover Technology	Select <input type="text"/>
Type of Thermal Energy Generation	Select <input type="text"/>
ENERGY GENERATION INFORMATION	
Gross Generation	<input type="text"/> MWh
Net Generation	<input type="text"/> MWh
Total Gross Thermal Output (for Cogeneration or Bigeneration)	<input type="text"/> mmBtu
OTHER ENERGY INPUTS DATA	
Other Steam Used for Acid Rain Program EGU [95112(b)(8)]	<input type="text"/> mmBtu
SUPPLEMENTAL FIRING INFORMATION (95111(b)(7), IF APPLICABLE)	
Fuel Type	Select <input type="text"/>
Annual Mass or Volume of Fuel Combusted	<input type="text"/> (short tons, scf, or gallons)
GEOHERMAL AND HYDROGEN FUEL CELL INFORMATION (IF APPLICABLE)	
Geothermal Steam Utilized	<input type="text"/> mmBtu
For Hydrogen fuel cells, please provide the fuel or feedstock consumption by fuel type in the text box below and the units of consumption (e.g. mmBtu, gallons, etc.). For each fuel, also include the name of the fuel provider and customer account number.	
Hydrogen Fuel Cell Fuel Utilized	<input type="text"/>

Subpart D Units

- Overall functionality closely mirrors the reporting configurations in Subpart C
- Fuels and emissions data fields are mostly the same as in U.S. EPA's e-GGRT
- The only major difference is in how the CO₂ emissions number is entered. Users have to hand-typed the CO₂ number into Subpart D.
- Section 95112 data fields are identical to those in Subpart C

Key Reporting Dates

- See **Key Dates** webpage for specific dates applicable to reporting year
- <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep-dates.htm>
- Actual Reporting Dates may differ from dates specified in the regulation if the specified dates fall on a Saturday, Sunday, or Holiday
- **Key Dates** page is updated annually with required submission dates

GHG Reporting Contacts

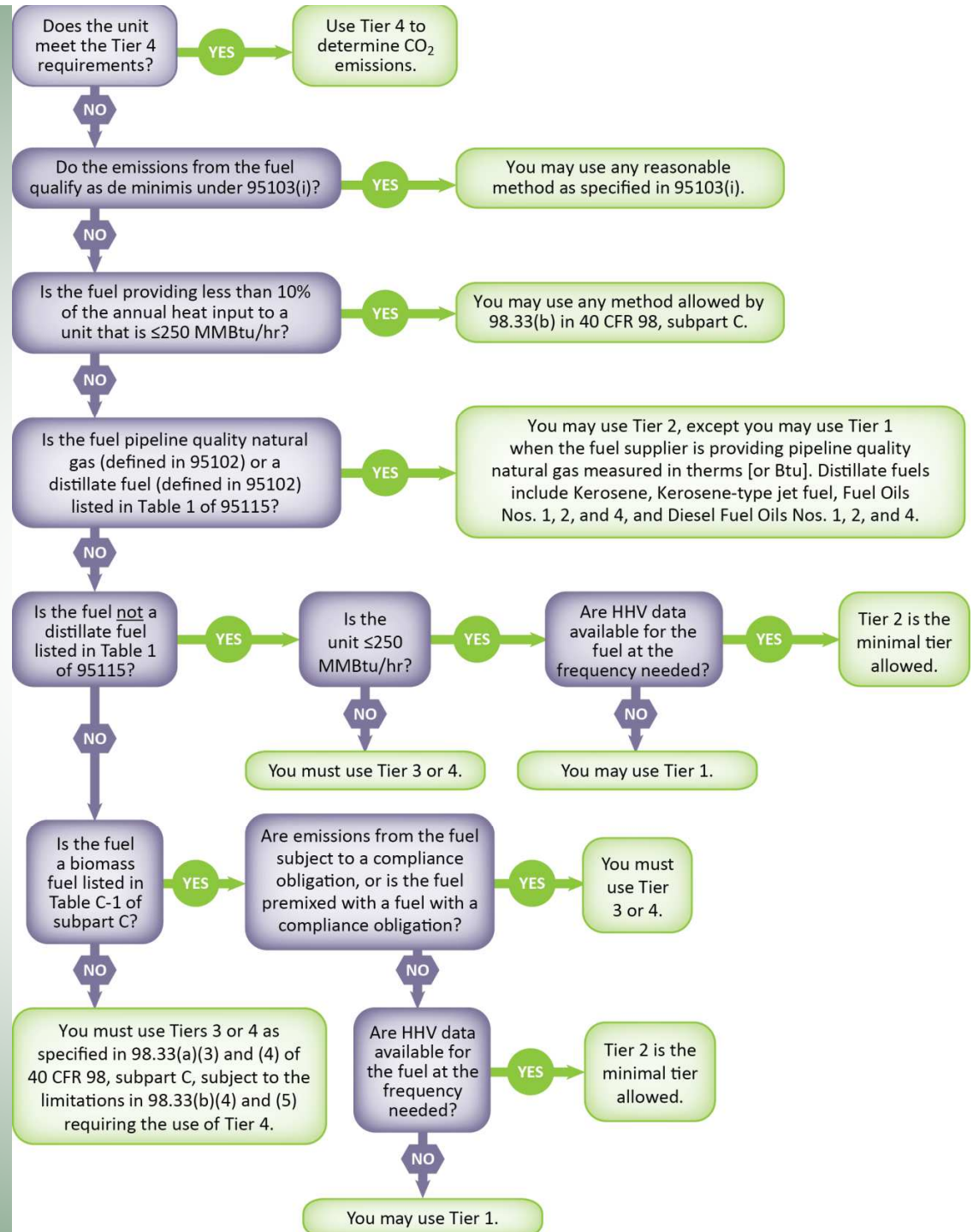
Subject Matter	Contact
GHG Mandatory Reporting (General)	Dave Edwards , Manager 916.323.4887
Reporting Requirements, Stationary Combustion, Other Sectors (cement, glass, pulp and paper, etc.)	Patrick Gaffney 916.322.7303
Reporting Tool Registration and General Questions	Karen Lutter 916.322.8620
Electricity Generation and Cogeneration Facilities	Anny Huang 916.323.8475
Electricity Retail Providers and Electricity Marketers	Wade McCartney 916.327.0822
Fuel and CO2 Suppliers - Transportation Fuels, Natural Gas, LPG, CO2	Byard Mosher 916.323.1185
Petroleum Refineries, Hydrogen Plants, Oil & Gas Production	Byard Mosher 916.323.1185
Greenhouse Gas Report Verification	Renee Lawver , Manager 916.322.7062
Chief – Greenhouse Gas Emission Inventory Branch	Richard Bode , Chief 916.323-8413

For More Information

- GHG Reporting Website
 - <http://www.arb.ca.gov/cc/reporting/ghg-rep/ghg-rep.htm>
- See website for:
 - Regulation reporting guidance and fact sheets
 - Reporting tool information
 - “Clean” copy of the regulation
(no underline/strikeout)
- Email reporting tool questions to:
ghgreport@arb.ca.gov

Reference

- Selecting a Subpart C Tier
- Facilities that qualify for abbreviated reporting under §95103(a) may use any method in 40 CFR 98.33(a) to calculate GHG emissions. For 2012 (and later) emissions reported in 2013 (and later), facilities must follow the tier selection shown here. For 2011 emissions data reported in 2012, reporters may use the methods allowed by 40 CFR 98, subpart C (see §95103(h)), and are not required to follow §95115(a) and (c).



Acknowledgement

- Components of this slide presentation were taken or adapted from the U.S. EPA training program titled “e-GGRT Training Webinar on Reporting GHG Data for Subparts C&D”
David Jacobson, U.S. EPA, GHGRP
- Full EPA slides are available here:
<http://www.epa.gov/climatechange/emissions/training.html>