



California Regulation for the Mandatory Reporting of Greenhouse Gas Emissions

# GHG Abbreviated Reporting

Regulatory Requirements, Registration,  
and Use of Cal e-GGRT System



**Revised January 16, 2019**

Presentation slides available here: <https://ww2.arb.ca.gov/mrr-tool>

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# Outline

- ▣ Abbreviated reporting requirements
- ▣ New user registration and account creation in Cal e-GGRT reporting system
- ▣ Using Cal e-GGRT for abbreviated greenhouse gas reporting
- ▣ Key reporting dates and other resources
- ▣ Questions and Answers

## Abbreviated Reporter Applicability

- ▣ Reportable greenhouse gas emissions must be less than 25,000 metric tons CO<sub>2</sub>e (carbon dioxide equivalent) and greater than or equal to 10,000 MT CO<sub>2</sub>e
- ▣ AND
  - ▣ Not a Fuel Supplier or Electric Power Entity
  - ▣ Not subject to cap-and-trade program (i.e., not an opt-in facility or due to historical emissions)
  - ▣ Not subject to U.S. EPA reporting for sectors included in CARB regulation
- ▣ See Section 95103(a) of regulation

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# Reporting Requirements

- ▣ Facility identification information
- ▣ Emissions data
- ▣ Fuel consumption
- ▣ Methods and data used for estimates  
(as applicable)
- ▣ Additional data for electricity generation and cogeneration (§95103(a)(6))

## Abbreviated “Reportable Emissions”

- Must report all specified fossil fuel and biomass combustion CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O emissions
- Reportable emissions include stationary combustions emissions, as well as process emissions (e.g., from glass production, hydrogen production, iron & steel production, pulp & paper production, nitric acid production)

## What Makes Reporting “Abbreviated?”

- ▣ Abbreviated reporters may use less stringent emission estimation methods
  - ▣ Default emission factors, Tier 1
  - ▣ Most will use utility bills for fuel use data
- ▣ Not subject to measurement accuracy requirements of §95103(k) or unit aggregation in §95115(h)
- ▣ GHG monitoring plan not required
- ▣ Not subject to third party verification
- ▣ More time to report - Reports due June 1st\* (vs. April 10th for full reporting)

*\* Note: If the reporting deadline falls on a weekend or holiday, the deadline is pushed back to the next business day. So for 2018 data reported in 2019, because June 1<sup>st</sup> is a Saturday, the report is due June 3, 2019.*

## Additional Info

- ▣ If future emissions exceed 25,000 metric tons
  - ▣ Full reporting and meter accuracy requirements apply for entire year
  - ▣ Verification required
  
- ▣ Cessation = emissions are less than 10,000 metric tons CO<sub>2</sub>e for three consecutive years
  - ▣ May discontinue reporting after the three-year period
  - ▣ Must notify CARB to cease reporting [§95101(h)(2)(E)]
  - ▣ See §95101(h)(2) for details
  
- ▣ Shutdown
  - ▣ Must report zero emissions for 1 year
  - ▣ Notify CARB [§95101(i)(1)]
  - ▣ See §95101(i) for details



# How to Report

Reporting is performed using the California Electronic Greenhouse Gas Reporting Tool

**Cal e-GGRT**

pronounced: Cal-Egret (like the bird)



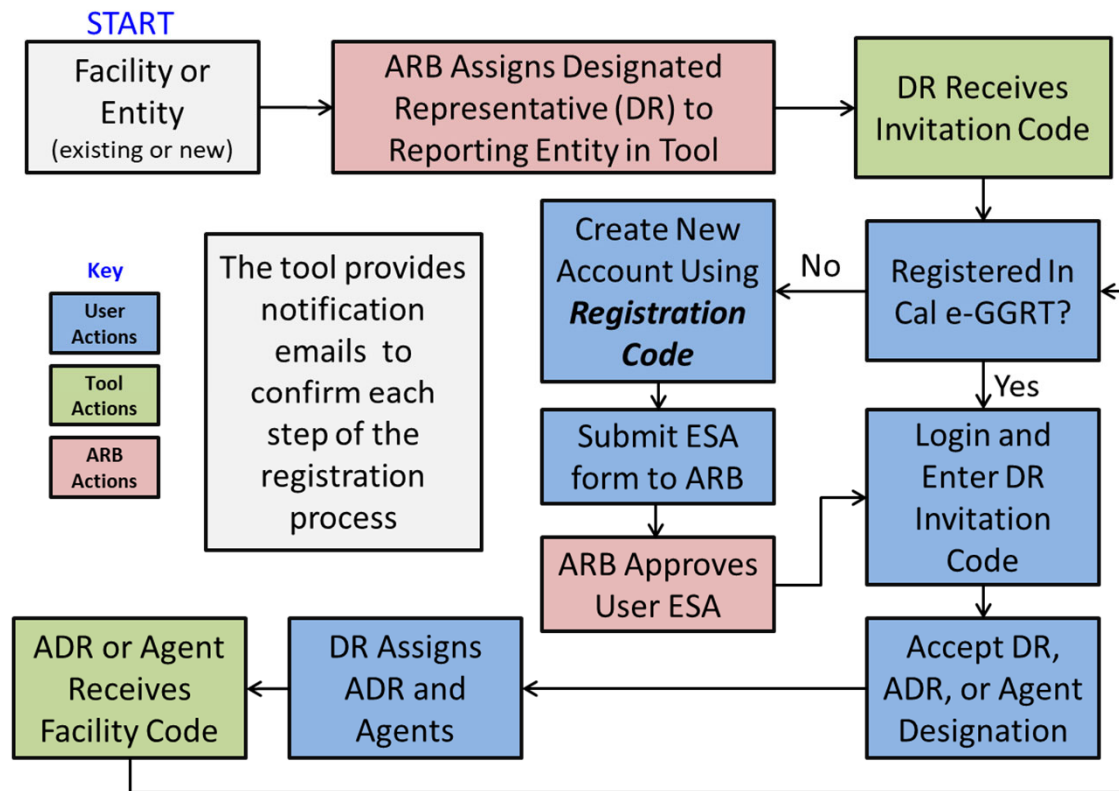
## What is Cal e-GGRT?

- Cal e-GGRT is used to report all data required by the GHG mandatory reporting regulation
- The tool contains modules for each sector required to report
- Cal e-GGRT calculates emissions based on entered fuel consumption values
- Multiple users can be associated with a single facility or entity

## Registering in Cal e-GGRT

- ▣ Create Individual User Account
  - ▣ Applies to ALL users that do not have an account
  - ▣ Registration code needed
  - ▣ Initially, not associated with facility
- ▣ ARB Creates Facility Account
  - ▣ Cal e-GGRT sends Designated Representative (DR) Invitation Code to primary facility contact
  - ▣ Invitation Codes generated by the tool are used to associate users with facilities
- ▣ DR may add an Alternate DR and Agents to facility account

# User Registration and DR Acceptance



# User Registration: Login Page

<https://ww2.arb.ca.gov/index.php/mrr-tool>

Context sensitive help on every page

If you have an account then log in here

Otherwise, click the green NEW USER REGISTRATION button

The screenshot shows the Cal e-GGRT login page. At the top left is the California Environmental Protection Agency Air Resources Board logo. At the top right is the Cal e-GGRT logo with a bird icon. The main heading is "Welcome to ARB's electronic Greenhouse Gas Reporting Tool". Below this is an "About Cal e-GGRT" section and a "Warning Notice" section. On the right side, there is a "Cal e-GGRT LOGIN" form with fields for "User Name:" and "Password:", a "LOGIN" button, and a "NEW USER REGISTRATION" button. A "NOTE" states that the Cal e-GGRT user account is not the same as the EPA CDX user account. Three callout boxes with arrows point to the "Cal e-GGRT Help" link, the "LOGIN" button, and the "NEW USER REGISTRATION" button.

# User Registration: Account Setup

- Accept Cal e-GGRT Terms and Conditions
- Create User Profile

California Environmental Protection Agency  
**Air Resources Board**

USER REGISTRATION

Cal e-GGRT Help

User Profile Challenge Questions Signature Agreement Print Summary

**YOUR USER PROFILE**  
By completing and saving this form you will establish your Cal e-GGRT user profile.  
**NOTE:** You will not be able to return to this screen, so please double-check the information before you save.

Registration Code \*  
Title \* Select  
First Name \*  
Middle Initial  
Last Name \*  
Suffix Select

ADDRESS INFORMATION

When filling out your profile:  
Use Registration Code

**Please provide Registration Code to any ADRs or AGENTS you assign**

Profile information will be used on the Certificate of Representation (if you are a DR or ADR) or Notice of Delegation (if you are an Agent)

## User Registration: Electronic Signature and Use Agreement (ESA)

- ❑ **Original ESA must be physically mailed to CARB**
  - ❑ Must sign and date form
- ❑ To speed processing
  - ❑ Email scanned copy to: [ghgreport@arb.ca.gov](mailto:ghgreport@arb.ca.gov)
- ❑ ARB approves ESAs for all user accounts
- ❑ User cannot accept Designated Representative or other invitations until ESA approved
- ❑ Users do not have access to facility account until ESA approved

# User Registration: Accept Designated Representative Invitation

The screenshot shows the Cal e-GGRT web application interface. At the top, there is a header for the California Environmental Protection Agency Air Resources Board. The main navigation menu includes 'HOME', 'FACILITY MANAGEMENT', and 'DATA REPORTING'. A user profile bar at the top right displays 'Hello, Patrick Gaffney | My Profile | Logout'. On the left, there is a sidebar with 'Cal e-GGRT Help' and 'About Cal e-GGRT Home'. The central area is titled 'YOUR FACILITIES:' and contains a table with the following data:

Facility or Supplier	Your Role
ARB Test Facility - TEST ONLY - Production Site	DR

To the right of the table is a panel titled 'ACCEPT AN INVITATION: Responding to a Facility Invitation?'. It contains the instruction 'Paste the Invitation Code into the field below, then click 'GO'' and a text input field. A red arrow points from a yellow callout box to this input field. Below the input field is a 'GO' button and a 'Cal e-GGRT Announcements' link.

Subject: Cal e-GGRT: Accept appointment as Designated Representative for ARB Test Facility - TEST ONLY - Production Site (Ref# 347)

A Notice from California ARB's Electronic Greenhouse Gas Reporting Tool (Cal e-GGRT)

You have been appointed to be Designated Representative for ARB Test Facility - TEST ONLY - Production Site. You were appointed by Master User on Friday, February 17, 2012.

To accept this assignment, follow these steps:

- 1) Login to Cal e-GGRT at <https://ssl.arb.ca.gov/Cal-eGGRT/login.do> .  
If you are not a Cal e-GGRT user you will need to create a user account. Click the NEW USER REGISTRATION button on the login page to begin.
- 2) On the homepage, find the "Accept an Invitation" panel, then copy and paste the following Invitation Code in the field provided.

**Invitation Code: 5DED13E1E1F04D8586AB834AF5A0573A**

**Copy/Paste Invitation Code here**

# User Registration: Adding ADR and Agents

- Facility Management tab
- Use CHANGE or Add Agent buttons

California Environmental Protection Agency  
**Air Resources Board**

HOME | **FACILITY MANAGEMENT** | DATA REPORTING

MY FACILITIES | FACILITY SUMMARY

Hello, Patrick Gaffney | My Profile | Logout

### ARB Test Facility - TEST ONLY - Production Site

#### Facility Summary

**Cal e-GGRT FACILITY SUMMARY**  
From this summary page, depending upon your role, you can make changes to the "Facility Profile" information, the facility's representatives Designated Representative (DR) and Alternate Designated Representative (ADR), and to your Agents if you are a DR or ADR.

Facility Representatives	
<b>Designated Representative</b>	Patrick Gaffney <a href="#">CHANGE</a>
<b>Alternate Designated Representative</b>	Karen Lutter <a href="#">CHANGE</a>

**Facility Profile**

<b>Physical Address</b>	ARB Test Facility - TEST ONLY - Production Site ARB Street Sacramento CA 95814 <a href="#">EDIT</a>
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**Certificate of Representation Signed and Complete:** No further action is required by the facility representatives.

[Certificate of Representation](#)

**Agent (for this facility)** for none appointed

[+ Add Agent](#) [✗ Remove selected](#)

**Initiate changes here for DR, ADR, & Agents**



# User Registration: ADRs and Agents

ARB Test Facility - TEST ONLY - Production Site  
Facility Summary » [Change DR](#)

**CHANGE THE DESIGNATED REPRESENTATIVE**

Choose the way in which you would like to change the existing Designated Representative (DR) :

- ▶ **Promote the Alternate Designated Representative (ADR)** : Promote the current ADR to be the new DR. (This is the preferred approach for changing a DR)
- ▶ **Create a new DR** : Create a new DR by entering his or her name, phone and email address.

ARB Test Facility - TEST ONLY - Production Site  
Facility Summary » [Change ADR](#)

**CHANGE THE ALTERNATE DESIGNATED REPRESENTATIVE**

Choose the way in which you would like to change the existing Alternate Designated Representative (ADR) :

- ▶ **Remove the ADR** : Remove the ADR without a replacement.
- ▶ **Create a new ADR** : Create a new ADR by entering their name, phone and email address. Only one ADR is allowed per facility.

ARB Test Facility - TEST ONLY - Production Site  
Facility Summary » [Add an Agent](#)

**ADD AN AGENT FOR THIS FACILITY**

▶ **Create a new Agent** : Create a new Agent by entering their name, phone and email address. As a DR or ADR you may have one or more Agent's at each facility or supplier. \* denotes a required field

**COMPLETE THE AGENT INVITATION**  
Enter the Agent's information in the form below and click the CONTINUE button. Cal e-GGRT will send the Agent an email invitation with instructions on how to login and accept the new role.

**Once this person becomes an Agent, they will have access to all Cal e-GGRT data on this facility or supplier, which may include Confidential Business Information.**

NEW AGENT

First Name \*

Last Name \*

Phone \*

Email \*

Re-enter Email \*



# Overview of Cal e-GGRT Operation

- Facility profile information
- Adding subparts for reporting
- Entering emissions data
- Validation messages

# Facility Profile Information

- Accessed via FACILITY MANAGEMENT tab
- Completed by DR during initial account acceptance

## Facility Summary

### Cal e-GGRT FACILITY SUMMARY

From this summary page, depending upon your role, you can make changes to the "Facility Profile" information, the facility's representatives Designated Representative (DR) and Alternate Designated Representative (ADR), and to your Agents if you are a DR or ADR.

**Pending:** The Certificate of Representation has a pending change preventing further changes to the facility or supplier's representatives or profile. The new Designated Representative Mr. Patrick Gaffney must click the "Sign Certificate of Representation" link that appears on their Cal e-GGRT home page.

Facility Representatives	
Designated Representative	Patrick Gaffney
Alternate Designated Representative	none

Facility Profile	
Physical Address	Patrick Training Facility #3 1001 I Street Physical Address Sacramento CA 95814 <span>EDIT</span>
Mailing Address	Patrick Training Facility #3 1001 I Street Mailing Address Sacramento CA 95814
Billing Address	Patrick Training Facility #3
<b>Responsible Party for Payment</b>	
Responsible Party Email	
Responsible Party Phone	
Latitude	38.5836
Longitude	-121.486244
County	SACRAMENTO
Air Basin	SACRAMENTO VALLEY
District	SACRAMENTO METROPOLITAN AQMD
Owners and Operators	Patrick

### Certificate of Representation

Agent (for this facility)	for
<input type="checkbox"/> c h	DR

+ Add Agent    ✖ Remove selected

# Data Reporting

- Use DATA REPORTING tab to report emissions and other data

The screenshot displays the Cal e-GGRT web application interface. At the top, the header includes the California Environmental Protection Agency logo, the Air Resources Board logo, and the Cal e-GGRT logo (California Electronic Greenhouse Gas Reporting Tool). The navigation menu contains 'HOME', 'FACILITY MANAGEMENT', and 'DATA REPORTING', with 'DATA REPORTING' highlighted by a red circle. A user greeting 'Hello, Patrick Gaffney | My Profile | Logout' is visible on the right.

The main content area is titled 'e-GGRT Greenhouse Gas Data Reporting' and includes a 'Select Facility' link. A grey box contains the following text:

**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.

Below this is a table titled 'REPORTING FACILITIES':

ARB ID	Facility or Supplier	Annual Report Status	Facility Overview
999999	ARB Test Facility - TEST ONLY - Production Site (Sacramento, CA)	Not generated	<a href="#">OPEN</a>

Below the table is a section titled 'FACILITIES NOT REPORTING IN 2011:' with a table that shows 'No facilities found.'

A yellow callout box with a red arrow points to the 'OPEN' button in the table, containing the text: 'OPEN Facility Overview to begin entering data'.

At the bottom of the page, there is a 'Contact Us' link on the left and the version information 'Cal-eGGRT RY2011.R.48 | DR-facility-select' on the right.

## Subpart A – General Information

- ▣ All reporters complete Subpart A
- ▣ Some items in Subpart A not directly applicable to Abbreviated Reporters
- ▣ Complete Subpart A to clear all Validation Messages
- ▣ Cannot generate final report with pending validation messages

# Subpart A – Data Entry

- Required fields must be completed
- Validation messages triggered if incomplete

Patrick Training Facility #3

**Sections 95100-95108 (Subpart A): Facility Reporting Information (2012)**

[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
221122	Electric Power Distribution	Primary	

[+ 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: \* 01/01/2012

GHG report end date: \* 12/31/2012

Explanation of any calculation methodology changes during the reporting year:

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

Does this company or entity qualify for small business status?  Yes  No

## Subpart A – Validation Messages

- All validation must be cleared before report generation allowed
- All reporters provide electricity and natural gas purchased

### FACILITY-LEVEL VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	Message <sup>3</sup>
Data Completeness	A624	You have not entered any natural gas purchases. At least one row must be entered into the Natural Gas Purchases section. If your facility did not purchase any natural gas, then select "Facility does not consume NG" as the natural gas provider name.

### CORPORATE PARENT VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	Corporate Parent Name	Message <sup>3</sup>
Data Completeness	A510		Please identify the highest-level United States parent company as of December 31 of the current reporting year. This data is required.

### NAICS CODE VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	NAICS Code	Message <sup>3</sup>
No NAICS code validation messages found.			

# 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).

CO<sub>2</sub> equivalent emissions (excluding biogenic) from subparts C - HH (metric tons)

Biogenic CO<sub>2</sub> emissions from subparts C - HH (metric tons)

CO<sub>2</sub> 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	<a href="#">View Messages</a>	<a href="#">OPEN</a>
Sections 95115, 95112 (Subpart C)—Stationary Fuel Combustion	<a href="#">View Messages</a>	<a href="#">OPEN</a>
Section 95113 (Subpart Y)—Petroleum Refineries	<a href="#">View Messages</a>	<a href="#">OPEN</a>
<a href="#">+ ADD or REMOVE Subparts</a>		

SUBPART ATTACHMENTS

Uploaded File Name	Subpart	Uploaded By	Uploaded Date
No subpart attachments			



# Reporting: Adding Subparts

- ▣ Select applicable subparts
- ▣ Most Abbreviated Reporters will only use Subparts A and C
  - ▣ “A” for general info
  - ▣ “C” for stationary combustion

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



# Subpart C Reporting Stationary Fuel Combustion

# Adding a Subpart C Configuration

## Two Step Process

1. Configuration Setup
  - ▣ Created once for each configuration
  - ▣ Varies by configuration type
2. Fuel Use and Emissions per Configuration
  - ▣ Reported for each fuel type combusted in a given configuration
  - ▣ Data required varies by tier and fuel type

# Reporting Stationary Combustion Emissions

- Add configurations to report units
- Then OPEN configurations and OPEN subordinate levels to report emissions and fuel data

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 (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) 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.

**CONFIGURATION SUMMARY**

Configuration Name or ID	Configuration Type	Status <sup>1</sup>	Delete
PG Single Unit	Single Unit Using Tiers 1, 2, or 3	Incomplete	<a href="#">OPEN</a>

[+ Add a Configuration](#)

[← Facility Overview](#)

**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 <sub>2</sub> Emissions (metric tons)	Total CO <sub>2</sub> Emissions from Sorbent Usage (metric tons)	Status <sup>1</sup>	Delete
		Incomplete	<a href="#">OPEN</a>

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

Fuel	Calculation Period	Methodology	Status <sup>1</sup>	Delete
Natural Gas (Weighted U.S. Average)	01/01/2011 - 12/31/2011	Tier 1 (Equation C-1)	Incomplete	<a href="#">OPEN</a>

[+ ADD a Fuel](#)

[← Subpart C Overview](#)

## Subpart C Configurations

- ▣ Subpart C offers 6 different reporting options, known as **Configurations** in Cal e-GGRT
- ▣ Reporting options provided in 40 CFR 98.36(b)-(c)
- ▣ Abbreviated reporters will typically use those in **\*blue**
  - ▣ \*Single Unit Using Tiers 1, 2, or 3 [98.36(b)]
  - ▣ \*Aggregation of Units [98.36(c)(1)]
  - ▣ \*Common Pipe [98.36(c)(2)]
  - ▣ Single Unit Using Tier 4 (CEMS) [98.36(b)]
  - ▣ Common Stack or Duct (CEMS) [98.36(c)(3)]
  - ▣ Alternative Part 75 Reporters [98.36(d)(2)]

# 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 →

# Configuration Information for Single Unit

- Select appropriate configuration type
- Provide setup information shown
- Electricity generation units require additional info when “Yes” selected

## CONFIGURATION INFORMATION

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 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.

\* denotes a required field

<b>Configuration Type</b>	Single Unit Using Tiers 1, 2, or 3	
<b>Unit Name/ID *</b>	PG Test Unit	(40 characters maximum)
<b>Description of the Unit or Unit Aggregation</b>	<input type="text"/>	
<b>Unit Type *</b>	ICI (Incinerator, commercial and industrial) ▼	
<b>Maximum Rated Heat Input Capacity *</b>	12	
<b>Unit of Measure *</b>	mmBtu/hr ▼	

**ELECTRICITY GENERATING UNITS**

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

Cal-eGGRT RY2011.R.100 | SPC-08

## Entering Fuel and Emissions Data

- ▣ Open Unit Configuration
  - ▣ Click on “ADD a Fuel”
  - ▣ Select a fuel
  - ▣ Select a Tier
    - ▣ *Most abbreviated reporters will use Tier 1*
  - ▣ Add additional fuels as applicable
  
- ▣ Open Fuel Information
  - ▣ Select calculation method
  - ▣ Enter fuel use data
  - ▣ Enter HHV and other data as applicable (Tiers 2 or 3)
  - ▣ Tool calculates emissions based on fuel use entered



# Add a Fuel

- Click on button to add fuels for configuration
- Also, complete CONFIGURATION-LEVEL data

[Edit this Configuration Information](#)

**CONFIGURATION-LEVEL EMISSIONS INFORMATION**

Total Exempt Biogenic CO <sub>2</sub> Emissions (metric tons)	Total CO <sub>2</sub> Emissions from Sorbent Usage (metric tons)	Status <sup>1</sup>	
0	0	Complete	<a href="#">OPEN</a>

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

Fuel	Calculation Period	Methodology	Status <sup>1</sup>		Delete
<a href="#">Natural Gas (Weighted U.S. Average) (Natural Gas)</a>	01/01/2012 - 12/31/2012	Tier 1 (Equation C-1)	Complete	<a href="#">OPEN</a>	

[+ ADD a Fuel](#)

[↑ Subpart C Overview](#)

<sup>1</sup> A status of "Incomplete" means that one or more required data elements are incomplete. For details, refer to the Data Completeness

# Entering Fuel Information

- Open fuel ①
- Enter required data ②

**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 <sub>2</sub> Emissions (metric tons)	Total CO <sub>2</sub> Emissions from Sorbent Usage (metric tons)	Status <sup>1</sup>
		Incomplete <a href="#">OPEN</a>

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

Fuel	Calculation Period	Methodology	Status <sup>1</sup>	Delete
Natural Gas (Weighted U.S. Average)	01/01/2011 - 12/31/2011	Tier 1 (Equation C-1)	Incomplete	<a href="#">OPEN</a>

[+ ADD a Fuel](#)

[Subpart C Overview](#)

**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) ②

**High Heat Value [HHV]**  (mmBtu/scf)

**Fuel Specific CO<sub>2</sub> Emission Factor [EF]**  Kg CO<sub>2</sub>/mmBtu

**Fuel Specific CH<sub>4</sub> Emission Factor [EF]**  Kg CH<sub>4</sub>/mmBtu

**Fuel Specific N<sub>2</sub>O Emission Factor [EF]**  Kg N<sub>2</sub>O/mmBtu

[← BACK](#) [NEXT →](#)

# Check Results

- Emissions calculated by tool using fuel and EFs
- Confirm entered or calculated results
- Can be overridden, but generally not needed

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 <sub>2</sub>	500,000,000	0.001028	53.02	27,252

What CO<sub>2</sub> 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 <sub>2</sub> e
CH <sub>4</sub>	500,000,000	0.001028	0.001	1	11
N <sub>2</sub> O	500,000,000	0.001028	0.0001	0	16

What CH<sub>4</sub> result do you want to report to CARB?

Use the calculated result rounded  
 Enter my own result (value will be rounded)

What N<sub>2</sub>O result do you want to report to CARB?

Use the calculated result rounded  
 Enter my own result (value will be rounded)

# Biogenic Emissions

- Beginning in 2018, Cal e-GGRT calculates biogenic CO<sub>2</sub> based on fuels selected and biogenic fraction entered for mixed fuels, such as tires and MSW

**CONFIGURATION-LEVEL EMISSIONS INFORMATION**

Total Biogenic CO <sub>2</sub> Emissions (metric tons)	Total CO <sub>2</sub> Emissions from Sorbent Usage (metric tons)	Status <sup>1</sup>	
		Incomplete	<a href="#">OPEN</a>

**ANNUAL BIOGENIC CO<sub>2</sub> FOR ALL FUELS (TOOL-CALCULATED)**

**Tool-calculated biogenic CO<sub>2</sub> emissions based on fuels selected, and biogenic fraction entered for mixed fuels such as tires and MSW**

Total exempt annual biogenic CO<sub>2</sub> mass emissions  (metric tons)

# Uploading Supporting Data

- If using Tier 2 or Tier 3 methods:
  - Generally not for abbreviated reporters
  - CARB requires reporting of additional information
  - Complete and upload required spreadsheets available 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 HHV](#)

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

Uploaded File Name	Attached By	Date	Delete
No files found.			



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# Data Validation and Report Submittal

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# 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 <sup>1</sup>	ID <sup>2</sup>	Message <sup>3</sup>
No facility level validation messages.		

**CONFIGURATION-LEVEL VALIDATION MESSAGES**

Validation Type <sup>1</sup>	ID <sup>2</sup>	Unit Name	Message <sup>3</sup>
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 <sup>1</sup>	ID <sup>2</sup>	Unit Name	Fuel Name	Message <sup>3</sup>
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](#)

<sup>1</sup> 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.

# Emission Roll-ups

- Cal e-GGRT calculates emissions totals for each subpart and aggregates subpart totals into facility or supplier totals
- Annual emissions calculated from each applicable subpart, for each of the following GHGs (in metric tons of each gas)
  - CO<sub>2</sub> (excluding biogenic CO<sub>2</sub>)
  - Biogenic CO<sub>2</sub>
  - CH<sub>4</sub> (and CH<sub>4</sub> converted to CO<sub>2</sub>e)
  - N<sub>2</sub>O (and N<sub>2</sub>O converted to CO<sub>2</sub>e)
- The subpart totals are rolled-up into the following facility totals:
  - Total CO<sub>2</sub>e for all sources and all GHGs (includes N<sub>2</sub>O and CH<sub>4</sub>) except of biogenic CO<sub>2</sub>
  - Biogenic CO<sub>2</sub> from all sources
  - Emissions for fuel supplier categories
  - Emissions for Electric Power Entities

	11,621
CO <sub>2</sub> equivalent emissions (excluding biogenic) from subparts C - AA (metric tons)	
	0
Exempt Biogenic CO <sub>2</sub> emissions from subparts C - AA (metric tons)	
	0
CO <sub>2</sub> equivalent quantity from supplier categories, including biogenic (metric tons)	
	0
CO <sub>2</sub> equivalent emissions from electric power entities (metric tons)	

[VIEW GHG DETAILS](#)

The totals shown above do not include the de minimis emissions entered in subpart A.



## Emissions Checks Before Submitting Reports

- ▣ Reality-check data
- ▣ Review overall magnitude of emissions
  - ▣ Do totals look okay?
- ▣ Make sure fuel units (mmBtu, Therms, scf, etc.) are correct for method selected
- ▣ Generate full report and check inputs and other data

# Generating Report

- After ALL critical validation messages are cleared, GENERATE/SUBMIT button activates
- Generate report and review inputs and data

## SUBPART ATTACHMENTS

Uploaded File Name	Subpart	Uploaded By	Uploaded Date
<a href="#">Copy of De Minimis Emissions.xls</a>	A	Katrina Luther	October 2, 2012
<a href="#">Equation C-2b (CC) Calculation Spreadsheet.xls</a>	C	Katrina Luther	December 26, 2012

## SUBMIT ANNUAL REPORT

If all subparts are completed and Validation Messages addressed to your satisfaction, you are ready to prepare and submit an Annual Report.

Report	Uploaded File Name	Status	Submitted Date	Certification Date	
2011 Annual Report v1		Ready for review			<a href="#">GENERATE / SUBMIT</a>

# Submit/Certify Report

- After all checks complete, SUBMIT/CERTIFY the report
- This **LOCKS** the report and it can no longer be edited

## GENERATE REPORT

Generating the report may take from 1 to 10 minutes depending upon the volume of data.

Once your facility has generated a report, it is still possible to return to the data reporting screens to make changes. **Those changes, however, will not be reflected in your Annual Report until you generate it again.**

GENERATE REPORT

**!** **The Annual Report has already been prepared.** Clicking this button will regenerate the report. This action will reflect any changes that have been made to the reported data.

## REVIEW REPORT

Prior to the submission and certification of your report to ARB, you may review it by using the VIEW REPORT, VIEW EXCEL or VIEW XML buttons.

VIEW REPORT

VIEW EXCEL

VIEW XML

DOWNLOAD XML

## SUBMIT and CERTIFY REPORT

If you have reviewed and are satisfied with your Annual Report you may proceed to submit and certify. The certification process includes applying your electronic signature (entering your password and answering a challenge question).

SUBMIT/CERTIFY →

**!** After clicking the SUBMIT/CERTIFY button, and completing the certification process, your report is locked and submitted to ARB via Cal e-GGRT. You will not be able to generate a new report until the certified report status has been set to Revisions Requested by a verifier or ARB staff.

BACK

## Report Completion

- ▣ Once the report is submitted, Cal e-GGRT will send a confirmation email to the DR and others on the account
- ▣ Report submittal **locks** the report so data cannot be edited without CARB intervention
- ▣ Generated reports remain accessible in system
- ▣ Recommend printing and archiving generated report and any associated data

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## Additional Info

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## Helpful Websites

- Email reporting questions to: [ghgreport@arb.ca.gov](mailto:ghgreport@arb.ca.gov)
- Reporting Guidance: Applicability, Metering  
<https://ww2.arb.ca.gov/mrr-guidance>
- Cal e-GGRT Tool Training: Registration, Subparts  
<https://ww2.arb.ca.gov/mrr-tool>
- Cal e-GGRT Main Help Page  
<http://www.ccdsupport.com/confluence/display/calhelp/Home>

## Some Emissions Terminology

- ▣ Total CO<sub>2</sub> emissions
  - ▣ Measured or calculated value of CO<sub>2</sub> that includes both biogenic and non-biogenic emissions
- ▣ Fossil fuel CO<sub>2</sub> emissions
  - ▣ CO<sub>2</sub> emissions from fossil fuels
  - ▣ Fossil fuel portion of CO<sub>2</sub> from fuels with a fossil and biomass component (i.e. MSW and tires)
- ▣ Biogenic CO<sub>2</sub> emissions
  - ▣ CO<sub>2</sub> emissions from biomass fuels (wood, biogas, etc.)
  - ▣ Biogenic portion of CO<sub>2</sub> from fuels with a fossil and biomass component (e.g., municipal solid waste and tires)
- ▣ Non-Biogenic CO<sub>2</sub> emissions
  - ▣ CO<sub>2</sub> emissions from fossil fuels
  - ▣ Any N<sub>2</sub>O or CH<sub>4</sub> combustion emissions
  - ▣ Sorbent CO<sub>2</sub>
  - ▣ Process CO<sub>2</sub>
  - ▣ Fossil fuel fraction of CO<sub>2</sub> from fuels with a fossil and biomass component (e.g., municipal solid waste and tires)

# Key Reporting Dates

Date	Activity
January	Cal e-GGRT activated for the reporting year
February 1	Registration deadline for electric power entities (EPE) to register specified source facilities and units.
April 10	Reporting deadline for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting
<b>June 1*</b>	<b>Regulatory deadline: Reporting deadline for electric power entities and entities subject to abbreviated reporting</b>
July 15	Deadline for corrections to RPS Adjustment data required for electric power entity data reports
August 10*	Final verification statements due (emissions data and product data)

\*If a date listed above falls on a Saturday, Sunday, or holiday, the due date is modified to the first business day after the listed date. For reporting of 2018 data in 2019, this means that the reporting deadline for EPEs and abbreviated reporters will be June 3<sup>rd</sup>, and the verification deadline will be August 12<sup>th</sup>.



# GHG Reporting Contacts

Subject Matter	Contact
GHG Mandatory Reporting (General)	<a href="#">Syd Partridge</a> , Manager 916.445.4292
Reporting Tool Registration and General Questions	<a href="#">Karen Lutter</a> 916.322.8620
Electricity Retail Providers and Electricity Marketers	<a href="#">Wade McCartney</a> 916.327.0822
Fuel and CO <sub>2</sub> Suppliers - Transportation Fuels, Natural Gas, LPG, CO <sub>2</sub>	<a href="#">Smadar Levy</a> 916.324.0230
Greenhouse Gas Report Verification	<a href="#">Ryan Schauland</a> , Manager 916.324.1847
Program Planning and Management Branch	<a href="#">Brienne Aquila</a> , Chief 916.324.0919

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# Notes