

California Regulation for the
Mandatory Reporting of Greenhouse Gas Emissions

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

April 18, 2013

Presentation Slides Available Here:

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

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 CO₂e (carbon dioxide equivalents) and greater than or equal to 10,000 MT CO₂e
- 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 ARB regulation
- See Section 95103(a) of regulation

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 emissions of CO₂, CH₄, and N₂O
- For 2013 reporting of 2012 data, only stationary combustion emissions required
- For 2014 reporting of 2013 data and onward must also include:
 - Process emissions for glass production, hydrogen production, iron & steel production, pulp & paper 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 3rd for 2013 reporting of 2012 data (vs April 10th)

Additional Info

- If future emissions exceed 25,000 metric tons
 - Full reporting and meter accuracy requirements apply for entire year
 - Verification required
- Cessation or Shutdown
 - If emissions are less than 10,000 metric tons CO₂e for three consecutive years
 - May discontinue reporting
 - Must notify ARB
 - See §95101(h)(1) for details
 - If shutdown, must report zero emissions for 1 year and notify ARB



How to Report

Reporting is performed using the California
Electronic Greenhouse Gas Reporting Tool

Cal e-GGRT

pronounced: Cal-Egret (like the bird)

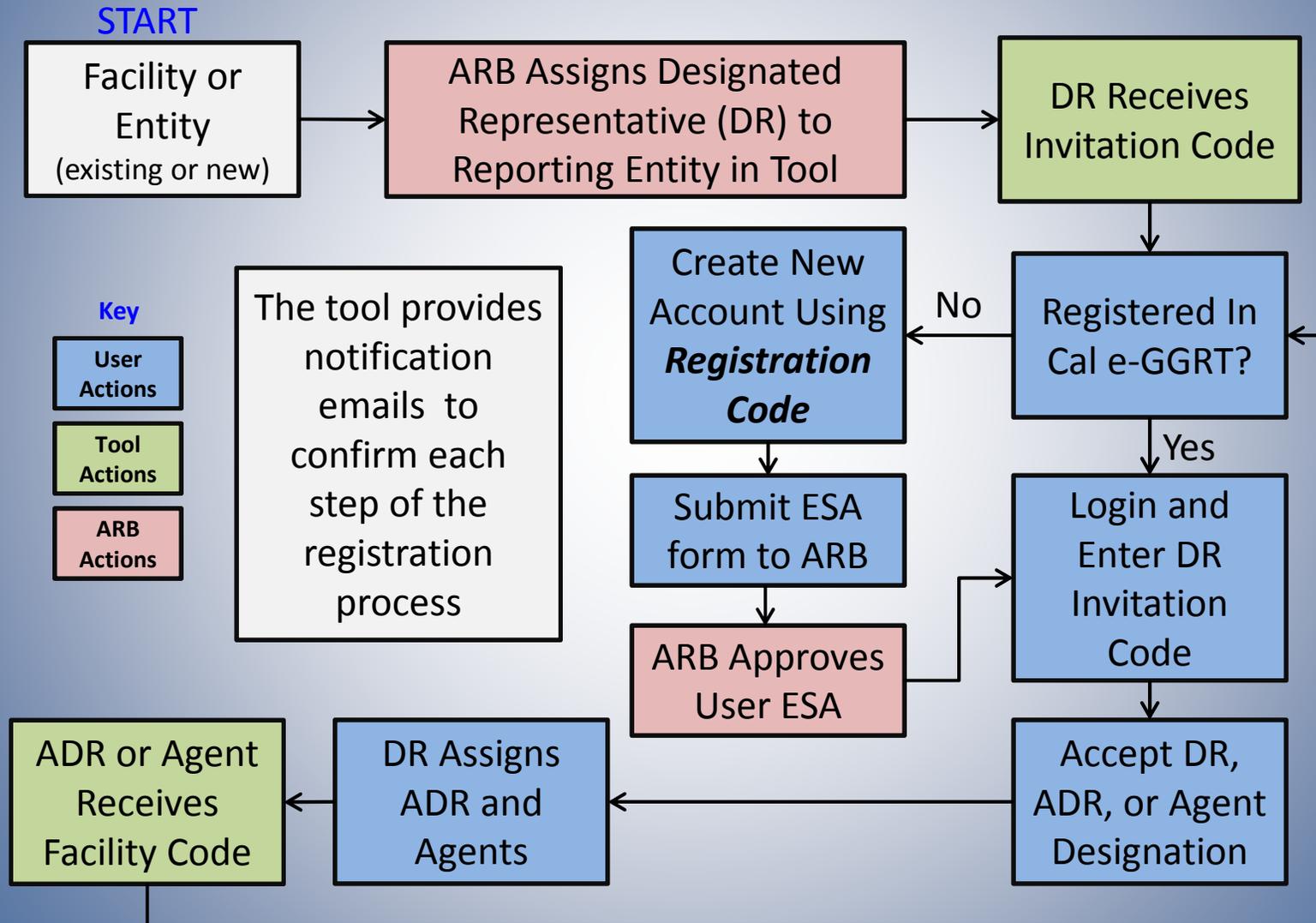
What is Cal e-GGRT?

- 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
- Will calculate 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

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

Context sensitive help on every page

California Environmental Protection Agency
Air Resources Board



If you have an account then log in here

Cal e-GGRT Help

Login to Cal e-GGRT

Welcome to ARB's electronic Greenhouse Gas Reporting Tool

About Cal e-GGRT

Cal e-GGRT supports facility and supplier reporting for the Mandatory Reporting of Greenhouse Gases Regulation. The regulation requires electronic reporting of greenhouse gas (GHG) emissions from large sources and suppliers in California.

Warning Notice

Cal e-GGRT registration is part of a California Air Resources Board (ARB) computer system, which is for authorized use only. Unauthorized access or use of this computer system may subject violators to criminal, civil, and/or administrative action. All information on this computer system may be monitored, recorded, read, copied, and disclosed by and to authorized personnel for official purposes, including law enforcement. Access or use of this computer system by any person, whether authorized or unauthorized, constitutes consent to these terms.

Cal e-GGRT LOGIN

User Name:

Password:

[LOGIN](#)

Forgot your [User Name](#) or [Password](#)?

New Cal e-GGRT Users Must Register

New users must complete a one-time registration process. After establishing a user account you can register your facility.

[NEW USER REGISTRATION](#)

NOTE: Your Cal e-GGRT user account is NOT the same as your EPA CDX user account.

Otherwise, click the green **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

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 *

First Name *

Middle Initial

Last Name *

Suffix

ADDRESS INFORMATION
Organization *

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 ARB**
 - Must sign and date form
- To speed processing
 - Email scanned copy to: ghgreport@arb.ca.gov, or
 - Fax copy to: 916-327-8524, Attn: Dave Edwards
- 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

California Environmental Protection Agency
Air Resources Board

HOME FACILITY MANAGEMENT DATA REPORTING

Cal e-GGRT
California Electronic Greenhouse Gas Reporting Tool

Hello, Patrick Gaffney | My Profile | Logout

Cal e-GGRT Help
About Cal e-GGRT Home

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

ACCEPT AN INVITATION:

Responding to a Facility Invitation?

Paste the Invitation Code into the field below, then click 'GO'

Cal e-GGRT Announcements

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

Cal e-GGRT
California Electronic Greenhouse Gas Reporting Tool

HOME FACILITY MANAGEMENT DATA REPORTING

MY FACILITIES FACILITY SUMMARY Hello, Patrick Gaffney | My Profile | Logout

Cal e-GGRT Help
About Facility Management

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.

Certificate of Representation Signed and Complete: No further action is required by the facility representatives.

Facility Representatives	
Designated Representative	Patrick Gaffney
Alternate Designated Representative	Karen Lutter

Facility Profile

Physical Address	ARB Test Facility - TEST ONLY - Production Site ARB Street Sacramento CA 95814
-------------------------	--

Agent (for this facility) for none appointed

+ Add Agent ✕ Remove selected

CHANGE **CHANGE** **EDIT**

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 *

CONTINUE

CANCEL



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

Certificate of Representation

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

+ Add Agent

✗ Remove selected

Facility Profile

Physical Address	Patrick Training Facility #3 1001 I Street Physical Address Sacramento CA 95814	EDIT
Mailing Address	Patrick Training Facility #3 1001 I Street Mailing Address Sacramento CA 95814	
Billing Address	Patrick Training Facility #3	
Responsible Party for Payment		
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	

Data Reporting

- Use DATA REPORTING tab to report emissions and other data

California Environmental Protection Agency
Air Resources Board

HOME FACILITY MANAGEMENT **DATA REPORTING**

Cal e-GGRT
California Electronic Greenhouse Gas Reporting Tool

Hello, Patrick Gaffney | My Profile | Logout

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.

REPORTING FACILITIES

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

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 ¹	ID ²	Message ³
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 ¹	ID ²	Corporate Parent Name	Message ³
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 ¹	ID ²	NAICS Code	Message ³
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).

0
CO2 equivalent emissions (excluding biogenic) from subparts C - HH (metric tons)

0
Biogenic CO2 emissions from subparts C - HH (metric tons)

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

EPA SUBPARTS D - AA

- 95112 (Subpart D)—Acid Rain Program EGU
Description ([SHOW](#) | [HIDE](#))
- 95110 (Subpart H)—Cement Production
Description ([SHOW](#) | [HIDE](#))
- 95116 (Subpart N)—Glass Production
Description ([SHOW](#) | [HIDE](#))
- 95114 (Subpart P)—Hydrogen Production
Description ([SHOW](#) | [HIDE](#))
- 95120 (Subpart Q)—Iron and Steel Production
Description ([SHOW](#) | [HIDE](#))
- 95117 (Subpart S)—Lime Manufacturing
Description ([SHOW](#) | [HIDE](#))
- 95118 (Subpart V)—Nitric Acid Production
Description ([SHOW](#) | [HIDE](#))
- 95150-95157 (Subpart W)—Oil and Natural Gas Systems
Not currently available for selection.
Description ([SHOW](#) | [HIDE](#))
- 95113 (Subpart Y)—Petroleum Refineries
Description ([SHOW](#) | [HIDE](#))
- 95119 (Subpart AA)—Pulp and Paper Manufacturing
Description ([SHOW](#) | [HIDE](#))

GENERAL STATIONARY FUEL COMBUSTION

- 95115, 95112 (Subpart C)—Stationary Fuel Combustion
Description ([SHOW](#) | [HIDE](#))

SUPPLIER CATEGORIES

- 95121 (Subpart MM)—Suppliers of Petroleum Products
Description ([SHOW](#) | [HIDE](#))
- 95122 (Subpart NN)—Suppliers of Natural Gas and Natural Gas Liquids
Description ([SHOW](#) | [HIDE](#))
- 95123 (Subpart PP)—Suppliers of Carbon Dioxide
Description ([SHOW](#) | [HIDE](#))

AB 32 COST OF IMPLEMENTATION FEE REGULATION

- 95201-95207—AB 32 Cost of Implementation Fee Regulation
Description ([SHOW](#) | [HIDE](#))

SF6 GAS INSULATED SWITCHGEAR

- 95350-95359—SF6 Gas Insulated Switchgear
Description ([SHOW](#) | [HIDE](#))

ELECTRIC POWER ENTITIES

- 95111—Electric Power Entities
Not currently available for selection.
Description ([SHOW](#) | [HIDE](#))

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



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: Subpart C Stationary Combustion

- 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 (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	
+ Add a Configuration			
↑ Facility Overview			

OPEN

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	Delete
		Incomplete	

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	
+ ADD a Fuel				

OPEN

[↑ 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

Configuration Type	Single Unit Using Tiers 1, 2, or 3	
Unit Name/ID*	<input type="text" value="PG Test Unit"/>	(40 characters maximum)
Description of the Unit or Unit Aggregation	<input type="text"/>	
Unit Type*	ICI (Incinerator, commercial and industrial) ▾	
Maximum Rated Heat Input Capacity*	<input type="text" value="12"/>	
Unit of Measure*	mmBtu/hr ▾	
ELECTRICITY GENERATING UNITS		
Does this Configuration have the capacity to generate electricity?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
CANCEL	SAVE	

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 ₂ Emissions (metric tons)	Total CO ₂ Emissions from Sorbent Usage (metric tons)	Status ¹	
0	0	Complete	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) (Natural Gas)	01/01/2012 - 12/31/2012	Tier 1 (Equation C-1)	Complete	OPEN 

[+ ADD a Fuel](#)

[↑ Subpart C Overview](#)

Entering Fuel Information

- Open fuel ①
- Enter required data ②

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 CO2 Emission Factor [EF] Kg CO2/mmBtu

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

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

[← BACK](#) [NEXT →](#)

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	①	Delete
Natural Gas (Weighted U.S. Average)	01/01/2011 - 12/31/2011	Tier 1 (Equation C-1)	Incomplete	OPEN	✘

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 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 emission totals (in addition to fuel-based biofuel emissions)

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

- Manually entered
- Include all biogenic emissions for the configuration in total
- Required for correct accounting of biogenic emissions

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 Supporting Data

- If using Tier 2 or Tier 3 methods:
 - Generally not for abbreviated reporters
 - ARB 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

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

Uploaded File Name	Attached By
No files found.	



Data Validation and Report Submittal

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.

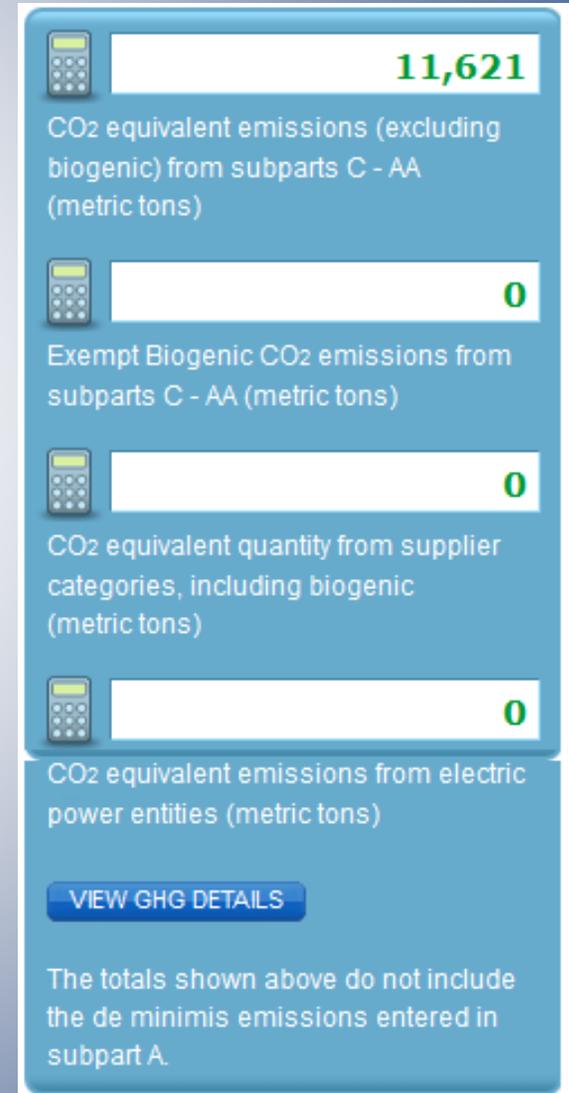
[← Subpart Overview](#)

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.

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)
 - CO₂ (excluding biogenic CO₂)
 - Biogenic CO₂
 - CH₄ (and CH₄ converted to CO₂e)
 - N₂O (and N₂O converted to CO₂e)
- The subpart totals are rolled-up into the following facility totals:
 - Total CO₂ equivalent (CO₂e) for all sources and all GHGs (includes N₂O and CH₄) except of biogenic CO₂
 - Biogenic CO₂ from all sources
 - Emissions for fuel supplier categories
 - Emissions for Electric Power Entities



The screenshot displays a user interface for emissions roll-up. It features four rows, each with a calculator icon, a text label, a numerical value in a white box, and a unit. The values are: 11,621 for CO₂ equivalent emissions (excluding biogenic) from subparts C - AA; 0 for Exempt Biogenic CO₂ emissions from subparts C - AA; 0 for CO₂ equivalent quantity from supplier categories, including biogenic; and 0 for CO₂ equivalent emissions from electric power entities. A blue button labeled 'VIEW GHG DETAILS' is located below the rows. A disclaimer at the bottom states: 'The totals shown above do not include the de minimis emissions entered in subpart A.'

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

[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
Copy of De Minimis Emissions.xls	A	Katrina Luther	October 2, 2012
Equation C-2b (CC) Calculation Spreadsheet.xls	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			GENERATE / SUBMIT

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 ARB intervention
- Generated reports remain accessible in system
- Recommend printing and archiving generated report and any associated data

Additional Information

Helpful Web Sites

- Email reporting questions to: ghgreport@arb.ca.gov
- Reporting Guidance: Applicability, Metering
<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm>
- Cal e-GGRT 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>

Some Emissions Terminology

- Total CO₂ emissions
 - Measured or calculated value of CO₂ that includes both biogenic and non-biogenic emissions
- 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)
- Biogenic CO₂ emissions
 - CO₂ emissions from biomass fuels (wood, biogas, etc.)
 - Biogenic portion of CO₂ from fuels with a fossil and biomass component (e.g., municipal solid waste and tires)
- Non-Biogenic CO₂ emissions
 - CO₂ emissions from fossil fuels
 - Any N₂O or CH₄ combustion emissions
 - Sorbent CO₂
 - Process CO₂
 - Fossil fuel fraction of CO₂ from fuels with a fossil and biomass component (e.g., municipal solid waste and tires)

Key Reporting Dates

Date	Activity
February 1	Regulatory deadline: Due date for electric power entities to register specified facilities outside California
February 13	Public release of Cal e-GGRT
April 10	Regulatory deadline: Reporting deadline for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting
June 3	Regulatory deadline: Reporting deadline for electric power entities and those subject to abbreviated reporting
July 15	Regulatory deadline: Deadline for corrections to RPS Adjustment data required for electric power entity data reports
September 3	Regulatory deadline: Final verification statements due (emissions data and product data)

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 CO ₂ Suppliers - Transportation Fuels, Natural Gas, LPG, CO ₂	Syd Partridge 916.445.4292
Petroleum Refineries, Hydrogen Plants, Oil & Gas Production	Byard Mosher 916.323.1185
Product Data – Refineries, and Oil & Gas	Joelle Howe 916.322.6349
Greenhouse Gas Report Verification	Renee Lawver , Manager 916.322.7062
Chief – Greenhouse Gas Emission Inventory Branch	Richard Bode , Chief 916.323-8413

End