

# GHG Reporting Kickoff Webinar for 2023 Data



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DATE: FEBRUARY 7, 2024

SLIDES AVAILABLE HERE: <https://ww2.arb.ca.gov/our-work/programs/mandatory-greenhouse-gas-emissions-reporting/training>

# Outline

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- Overview
- General reporting and verification information
- Lessons learned from the past year
- Cal e-GGRT reporting tool updates
- Questions

# 2022 Data Reporting Recap

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- 832 reports submitted
- 493 verified
  - 100% received positive / qualified positive emissions verification statements
- Other reports not subject to verification (i.e., abbreviated reporters or retail providers with no imports/exports)
- 2022 summary data posted for all reports here:
  - <https://ww2.arb.ca.gov/mrr-data>

# Key Reporting Dates for 2023 Data

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<https://ww2.arb.ca.gov/mrr-key-dates>

Date	Activity
April 10	Regulatory Deadline: Reports due for facilities and suppliers of fuels and carbon dioxide, except when subject to abbreviated reporting
June 3	Regulatory Deadline: Reports due for electric power entities and those subject to abbreviated reporting
August 12	Regulatory Deadline: Verification statements due (emissions data and product data)

# Reporting and Verification Schedule

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- RY2023 is the third year of the compliance period
  - Site visits optional unless you hire a new verifier or had a qualified positive verification statement last year
- Verification statements due by Aug. 12<sup>th</sup>, 2024
- No extensions to reporting or verification deadlines
- Failure to submit a report or verification by the required deadline is a violation of the regulation for each day the report or verification is late

# Enforcement

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- Issues that could lead to enforcement
  - Incorrect data reported
  - Failure to fix correctable errors that result in an adverse statement
  - Late reports or failure to report
  - Late verification or failure to verify
- CARB has completed enforcement actions related to reporting
  - Completed MRR case settlements posted here:
  - <https://ww2.arb.ca.gov/resources/documents/mrr-enforcement>

# General Reporting and Verification Information

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# Reporting Tips

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- Use 2018 Mandatory Reporting Regulation to report 2023 data:  
<https://www.arb.ca.gov/cc/reporting/ghg-rep/regulation/mrr-2018-unofficial-2019-4-3.pdf>
- CARB guidance located at: <https://ww2.arb.ca.gov/mrr-guidance>
- Utilize other resources available on the Mandatory Reporting website:  
<https://ww2.arb.ca.gov/our-work/programs/mandatory-greenhouse-gas-emissions-reporting>
- If you think you may be eligible for cessation of reporting or verification [pursuant to section 95101(h)] or are ceasing operations [section 95101(i)], contact CARB staff before the reporting deadline so we can ensure regulatory requirements are appropriately met
- Contact CARB for any questions about requirements ([ghgreport@arb.ca.gov](mailto:ghgreport@arb.ca.gov))
  - Save and file any CARB responses as part of your GHG Monitoring Plan and provide to your verifier



# Verification Essentials

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- New verification body is required every six years
- Be prepared to trace data to its origin
- Ensure GHG Monitoring Plan meets the requirements of section 95105(c) and includes any additional information that would be helpful to your verifier
- Correctable errors must be fixed. If not, verifier must submit an adverse statement
- If verifier or reporter is unsure of requirements, please contact CARB for assistance
  - Retain written/emailed guidance from CARB staff for review by your verifier

# Verification Best Practices

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- Initiate verification as soon as possible to allow time for revisions
- Streamline verification:
  - Execute verifier contract prior to report certification
  - Associate your report with your verifier at any time
  - Provide data to verifiers ASAP
  - It is good practice to have a webinar prior to a site visit (if required)
    - Be ready for questions early in the process from your verifier
    - If no site visit is conducted, we highly recommend a webinar with screenshare
  - Communicate promptly to ensure important issues are discussed early
- Start early and plan to finish early to ensure timely submittal

# Reporting Reminders

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- Don't forget to submit and certify a generated report
- If your report won't generate:
  - Clear all validation messages
  - Clear a pending Certificate of Representation (COR)
- As the DR (Designated Representative), notify CARB if you will no longer serve as the DR
  - It's the company's responsibility to notify CARB and re-assign someone as the DR
  - We've had issues tracking down new personnel when the DR leaves, therefore, we highly recommend all reporters designate an ADR (Alternate Designated Representative)
  - Late reporting violations do apply in such cases
- Notify CARB promptly if your facility is being sold or operational control changes
  - CARB will evaluate responsibility for reporting, verification, and C&T compliance
  - Can be complicated if transfer occurs during verification

# Certifying and Submitting a Report

Ensure your annual emissions data report is “certified” in Cal e-GGRT

## 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	Status	Submitted Date	Certification Date	Verification Date	
2019 Annual Report v1	Submitted, Pending Certification and Signature	01/02/2020 6:50 AM	01/02/2020 6:50 AM		<a href="#">GENERATE / SUBMIT</a>



## 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	Status	Submitted Date	Certification Date	Verification Date	
2019 Annual Report v1	Complete, Certified and Sent	01/02/2020 6:53 AM	01/02/2020 6:53 AM		<a href="#">HTML</a>   <a href="#">Excel</a>   <a href="#">XML</a>   <a href="#">Receipt</a>

## VERIFICATION BODY

This report does not require third party verification.

SUBMIT and CERTIFY REPORT

If you have reviewed and are satisfied with your Annual Report you may proceed includes applying your electronic signature (entering your password and answeri

[SUBMIT/CERTIFY](#)

⚠ After clicking the SUBMIT/CERTIFY button, and completing the certification pr via Cal e-GGRT. You will not be able to generate a new report until the certifie Requested by a verifier or CARB staff.

# Clearing Validation Messages

Example: For electricity generating facilities, total facility electricity generation, and nameplate capacity in Subpart A must equal the sum of unit-level electricity generation and nameplate capacity in Subpart C

## FACILITY-LEVEL VALIDATION MESSAGES

Validation Type <sup>1</sup>	ID <sup>2</sup>	Message <sup>3</sup>
Data Completeness	A2001	The sum of all Net Generation amounts from each subpart C or D units must be within plus or minus 5 percent of the sum of all electricity dispositions found in the three Disposition of Generated Electricity sections on the Subpart A Overview page [95112(a)(4)(A), 95112(a)(4)(B), and 95112(a)(4)(C)].
Data Completeness	A2003	The sum of all Nameplate Generating Capacity amounts from each subpart C or D units must be equal to the Total Facility Nameplate Generating Capacity in the Subpart A Overview page.

<b>Total Facility Nameplate Generating Capacity:</b> <input type="text" value="100"/> MW		<b>ELECTRICITY GENERATING UNITS BASIC INFORMATION</b>							
<b>Facility Type:</b> Stand-alone electricity generating facility		<b>Nameplate Generating Capacity:</b> <input type="text" value="100"/> MW							
<b>Facility's Energy Disposition:</b> Grid-dedicated facility		<b>Prime Mover Technology:</b> Combustion Turbine (Single Cycle)							
<b>DISPOSITION OF GENERATED ELECTRICITY [95112(a)(4)]</b>		<b>Type of Thermal Energy Generation:</b> Electricity only EGU							
<table border="1"> <thead> <tr> <th>Retail Provider/Marketer [95112(a)(4)(A)]</th> <th>Electricity Provided or Served [95112(a)(4)(B)]</th> </tr> </thead> <tbody> <tr> <td>Alameda Municipal Power</td> <td>100000</td> </tr> <tr> <td colspan="2">           + Generated Electricity for Grid Disposition [95112(a)(4)(A)]         </td> </tr> </tbody> </table>		Retail Provider/Marketer [95112(a)(4)(A)]	Electricity Provided or Served [95112(a)(4)(B)]	Alameda Municipal Power	100000	+ Generated Electricity for Grid Disposition [95112(a)(4)(A)]		<b>ENERGY GENERATION INFORMATION</b>	
Retail Provider/Marketer [95112(a)(4)(A)]	Electricity Provided or Served [95112(a)(4)(B)]								
Alameda Municipal Power	100000								
+ Generated Electricity for Grid Disposition [95112(a)(4)(A)]									
		<b>Gross Generation:</b> <input type="text" value="111000"/> MWh							
		<b>Net Generation:</b> <input type="text" value="100000"/> MWh							

# Clearing a Pending COR

- When a new DR/ADR accepts their invitation, a Certificate of Representation (COR) must be signed
- An incomplete COR appears under Home tab of invitee's account
- Report cannot be certified and submitted with a pending COR

The screenshot shows a web application interface with a navigation bar at the top containing 'HOME', 'FACILITY MANAGEMENT', and 'DATA REPORTING'. Below the navigation bar, there is a sidebar on the left with a help icon and the text 'Cal e-GGRT Help' and 'About Cal e-GGRT Home'. The main content area features a notification titled 'ACTION REQUIRED:' with a bell icon. Below the notification is a table with two columns: 'Action' and 'Facility or Supplier'. The table contains one row with the text 'Sign Certificate of Representation' under the 'Action' column and 'KL40 Stage Test' under the 'Facility or Supplier' column.

Action	Facility or Supplier
Sign Certificate of Representation	KL40 Stage Test

# CARB Quality Assurance (QA)

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## Process:

- CARB staff complete QA checks on reported data
- Send outreach to reporters and/or verifiers if potential errors are identified via direct email, phone call, or finding reports
  1. Spring/Summer Outreach = **Reactive**
  2. First Quarter Outreach = **Proactive**

# CARB QA Outreach: Finding Reports

- Entity report is uploaded into the Cal e-GGRT entity account
- User report is uploaded into the Cal e-GGRT user account

CARB ATTACHMENTS

Choose File No file chosen **UPLOAD**

File Name	Uploaded By	Uploaded Date
105012-2021_Entity QA Findings_2022-05-26.csv	Chris ARB_Helpdesk	December 3, 2022 9:55:56 AM

## My Profile

Menu

### EDITING YOUR CAL E-GGRT PROFILE AND ACCOUNT INFORMATION

Use the links below to edit different aspects of your Cal e-GGRT user profile and account information.

- ▶ [Edit My Profile](#) : Organization Name, Address, Phone and FAX.
- ▶ [Edit My Email](#)
- ▶ [Request Name Change](#)
- ▶ [Change My Password](#)
- ▶ [Change My Secret Question/Answer](#)
- ▶ [Reset My Challenge Questions](#)
- ▶ [Exchange Files With CARB](#)

### DOWNLOAD FILES FROM CARB

File Name
105012-2021_Entity QA Findings_2022-05-26.xlsx



# Lessons Learned

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# Units Combusting Natural Gas

- Amount of fuel purchased in Subpart A (in MMBtu)

NATURAL GAS PURCHASE/ACQUISITION FOR REPORTING FACILITIES

Natural Gas Supplier's\* Name Pacific Gas and Electric Company (PG&E) - Supplier of Natural Gas (ARB: 1040 ▾)

Other Natural Gas Supplier's Name

Customer Account\* Number(s), Service Account Number(s), or Account Identifier(s). (Include all accounts)

Natural Gas Purchased/Acquired  MMBtu

- Match closely with sum of unit-level inputs in Subpart C (or D)

EQUATION C-1b SUMMARY AND RESULT

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

Hover over an element in the equation above

Emission Type	Biogenic %	Gas (mmBtu)	EF
CO <sub>2</sub>	0	10,000	53.02

# Units Reporting Thermal Energy

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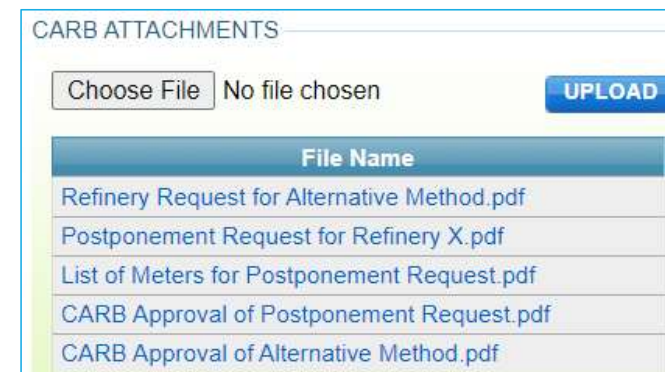
- Thermal energy disposition in Subpart A needs to match closely with total thermal output in Subpart C
- Keep in mind: total thermal output should roughly equal how much steam you use + how much steam you sell

THERMAL ENERGY DISPOSITION	
<b>Thermal Energy *</b> <b>Generating Unit, System, or Group Name</b>	<input type="text"/>
<b>End-User Name *</b>	<input type="text"/>
<b>ARB ID (if applicable)</b>	<input type="text"/>
<b>NAICS Code (optional)</b>	<input type="text"/>
<b>Thermal Energy Provided/Sold</b>	<input type="text"/> MMBtu

# Method Change Requests

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- Section 95103(m) of MRR provides requirements for:
  - Temporary or permanent changes to prescribed methods
  - Alternative measurement and monitoring methods
- Contact CARB if a method change is needed
- Submit requests as soon as possible to facilitate approval in timely manner



CARB ATTACHMENTS

Choose File No file chosen **UPLOAD**

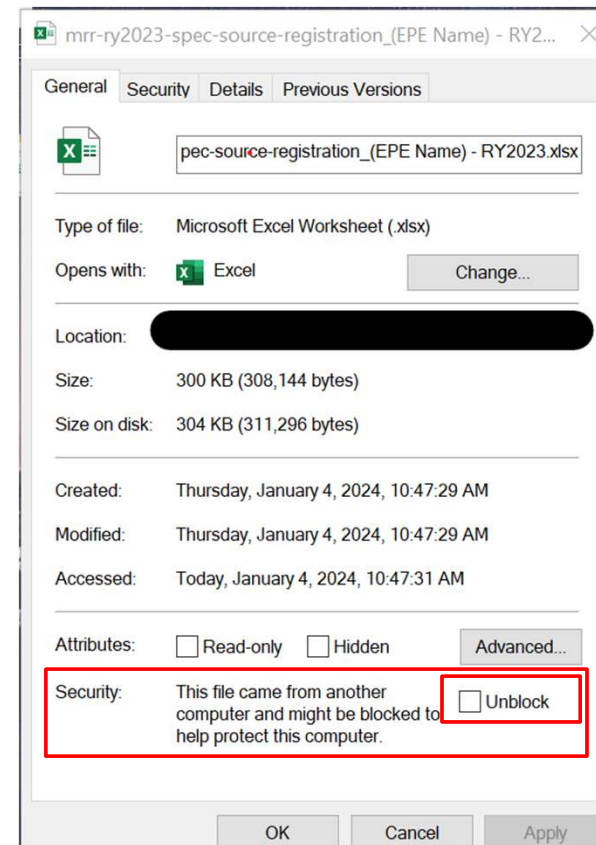
File Name
Refinery Request for Alternative Method.pdf
Postponement Request for Refinery X.pdf
List of Meters for Postponement Request.pdf
CARB Approval of Postponement Request.pdf
CARB Approval of Alternative Method.pdf

# Electric Power Entities (EPE) Guidance Spotlight

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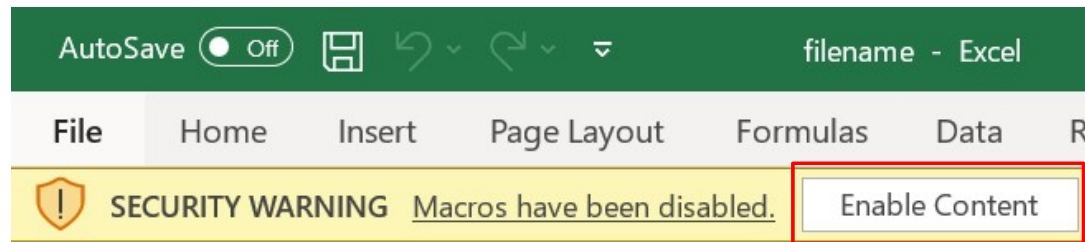
# New: Steps to Enable Workbooks

- Windows security update requires downloaded workbooks to be “unblocked” and “enabled”
- Follow these steps:
  1. After downloading the file, right-click the file and select Properties.
  2. At the bottom of the Properties window, under Attributes, check the box that says “Unblock.” (see screenshot)



# New: Steps to Enable Workbooks

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3. After performing steps 1 and 2, open the file.
4. Click the "Enable Content" button in the yellow bar at the top of the spreadsheet, under the Excel toolbars.
5. Save the file after clicking "Enable Content."

# Energy Storage Systems (ESS) Import Reporting

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- ESSs (such as batteries) are to be treated similarly to transmission hubs on the physical path for RY2023 & RY2024
  - No ESS losses or lesser of analysis are required
- RY2023 guidance and EPE workbooks will be updated and posted in March
- Any EPE needing to report ESS imports in RY2023 should contact CARB



# Cal e-GGRT Updates

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# Cal e-GGRT News & Reminders

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- Tool is now available for 2023 data reporting:  
<https://ww2.arb.ca.gov/mrr-tool>
- Cal e-GGRT release automatically migrates 2022 data configuration to 2023 reports
- New weblink: <https://caleggert.arb.ca.gov/login.do>
- Update DR, ADR, Agents (**Important!**)
- Contact GHG helpdesk if you have questions regarding Cal e-GGRT or QA outreach

# Need to Add an ADR

The screenshot displays the Cal e-GGRT web application interface. At the top, there is a navigation bar with the following tabs: HOME, FACILITY MANAGEMENT, and DATA REPORTING. Below the navigation bar, there is a header section with the California Air Resources Board logo and the Cal e-GGRT logo. The main content area is divided into several sections. On the left, there is a sidebar with a 'Cal e-GGRT Help' link and an 'About Cal e-GGRT Home' link. In the center, there is an 'ACTION REQUIRED' notification section. This section contains a table with the following data:

Action	Facility or Supplier
Add an ADR	ARB Test Facility - J

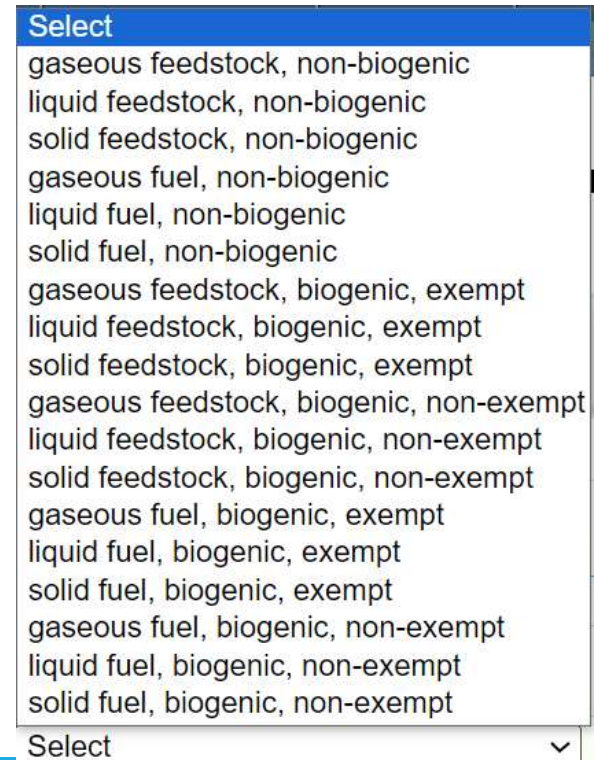
Below this table, there is a section titled 'YOUR FACILITIES (REPORTING YEAR 2022):' with a table containing the following data:

Facility or Supplier	Your Role	Data Reporting
ARB Test Facility - J	DR	

On the right side of the main content area, there is an 'ACCEPT AN INVITATION' section with a sub-section 'Responding to a Facility Invitation?' and a text input field labeled 'Paste the Invitation Code into the field:'. Below the main content area, there is a footer with links for 'Contact MRB', 'Contact O&A Desk', 'Contact SP/SGIC', and 'Privacy Policy'. At the bottom of the page, there is a blue banner with the text 'CALIFORNIA AIR RESOURCES BOARD' on the left and the number '27' on the right.

# Biogenic Emissions for Hydrogen Production (Subpart P)

- Subpart P now allows biogenic emissions to be reported
  - Fuel/Feedstock categories went from 6 choices to 18 choices for both exempt and non-exempt biogenic emissions
  - The choice of fuel type in this pull-down will then dictate covered emissions when you upload your XML file for fuel and feedstocks



Select

- gaseous feedstock, non-biogenic
- liquid feedstock, non-biogenic
- solid feedstock, non-biogenic
- gaseous fuel, non-biogenic
- liquid fuel, non-biogenic
- solid fuel, non-biogenic
- gaseous feedstock, biogenic, exempt
- liquid feedstock, biogenic, exempt
- solid feedstock, biogenic, exempt
- gaseous feedstock, biogenic, non-exempt
- liquid feedstock, biogenic, non-exempt
- solid feedstock, biogenic, non-exempt
- gaseous fuel, biogenic, exempt
- liquid fuel, biogenic, exempt
- solid fuel, biogenic, exempt
- gaseous fuel, biogenic, non-exempt
- liquid fuel, biogenic, non-exempt
- solid fuel, biogenic, non-exempt

Select

# Blend Fuels for Biogenic Emissions (Subparts C, D, and H)

- Fuel type determines if emissions are covered vs exempt
- Blend Fuels now include both exempt and non-exempt fuel types
- Several refineries will now more easily be able to report non-exempt biogenic emissions

FUEL INFORMATION

Fuel Name \* HydroTreat Process Gas (RFG)

Fuel Type \* Select

CANCEL SAVE

Contact SF6/GIE | Privacy P

- Select
- Other (gas)
- Other (liquid)
- Other (solid)
- Blend (gas)
- Blend (liquid)
- Blend (solid)
- Non-Exempt Blend (gas)
- Non-Exempt Blend (liquid)
- Non-Exempt Blend (solid)

FUEL BIOGENIC PERCENTAGE

Percentage of Fuel that is Biogenic  %

# More Options for Biogenic Emissions from CEMS

- Subpart H and P now allow non-exempt biogenic emissions to be reported for CO<sub>2</sub> CEMS
- Available within Subparts C and D soon

ANNUAL CO <sub>2</sub> EMISSIONS MEASURED BY THE CEMS	
Total annual CO <sub>2</sub> mass emissions	<input type="text"/> (metric tons)
Total annual exempt biogenic CO <sub>2</sub> mass emissions	<input type="text"/> (metric tons)
Total annual non-biogenic CO <sub>2</sub> mass emissions (includes fossil fuel, sorbent, and process CO <sub>2</sub> emissions)	<input type="text"/> (metric tons)
Total annual non-exempt biogenic CO <sub>2</sub> mass emissions (includes fossil fuel, sorbent, and process CO <sub>2</sub> emissions)	<input type="text"/> (metric tons)


# Reminder: Choosing a Verification Body

- Entities subject to verification can select a VB at any time

Report	Status	Submitted Date	Certification Date	Verification Date	
2021 Annual Report v1	Ready for Verification	05/12/2022 2:24 PM	05/12/2022 2:24 PM		HTML   Excel   XML   Receipt

VERIFICATION BODY \_\_\_\_\_

This report does not require third party verification.

Select 

- Verifiers submit conflict of interest forms via Cal e-GGRT
  - Approvals from CARB typically take less than a week
  - New reporters must select a VB before verifier can submit COI

# Greatest Risks for Mis-reporting

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- New reporting entity staff
  - Please keep DR/ADR info up to date so we can contact new staff
  - If you need help, please reach out! That's what we're here for
- Assuming previous methods/reported data were correct
  - Contact CARB staff to confirm your own understanding of basic reporting requirements



# Cost of Implementation Fee Update

- CARB will send COI fee invoices electronically by upload to Cal e-GGRT (e.g., RY2022 accounts for this year), with email notification sent to DRs, ADRs, and the listed Responsible Party
- Please ensure your DR, ADR, and/or Responsible Party for Payment and Email has been updated
- We will not share invoices with parties who are not explicitly affiliated with your current account

## CARB ATTACHMENTS

Choose File No file chosen **UPLOAD**

File Name
Method-or-Data.docx
999997-2021-FY2023-24_COI_Official_Invoice_Final.pdf
999997-2021-FY2023-24_COI_Detailed_Invoice_Final.pdf

Facility Profile	
<b>Physical Address</b>	ARB Test Facility - TEST ONLY Home Street Sacramento CA 95814 USA
<b>Mailing Address</b>	ARB Test Facility - TEST ONLY 1001 I Street Somewhere CA 95818 USA
<b>Billing Address</b>	ARB Test Facility - TEST ONLY 123 Chickaboom Australia CA 95000 USA
<b>Responsible Party for Payment</b>	Hey There
<b>Responsible Party Email</b>	k.bear@tree.com
<b>Responsible Party Phone</b>	3234490999

# The Take Home Message

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- Reach out to your verifier ASAP and select them in Cal e-GGRT
- No revisions to regulation or guidance documents this year
- Lots of resources available online
- Contact CARB for additional guidance, questions about QA Findings, or if any issues arise (<https://ww2.arb.ca.gov/mrr-contacts>)

# Resources

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- Email reporting questions to: [ghgreport@arb.ca.gov](mailto:ghgreport@arb.ca.gov)
- Email verification questions to: [ghgverify@arb.ca.gov](mailto:ghgverify@arb.ca.gov)
- Reporting Guidance  
<https://ww2.arb.ca.gov/mrr-guidance>
- Reporter Training Presentations  
<https://ww2.arb.ca.gov/our-work/programs/mandatory-greenhouse-gas-emissions-reporting/training>
- Cal e-GGRT Training  
<https://ww2.arb.ca.gov/mrr-tool>
- Cal e-GGRT Main Help Page  
<http://www.ccdsupport.com/confluence/display/calhelp/Home>
- Verification Bodies  
<https://ww2.arb.ca.gov/verification-bodies>

# GHG Reporting Contacts

All questions can be directed to [ghgreport@arb.ca.gov](mailto:ghgreport@arb.ca.gov)

Program / Sector	Contact
Manager – Climate Change Reporting Section	Syd Partridge <a href="mailto:Syd.Partridge@arb.ca.gov">Syd.Partridge@arb.ca.gov</a>
General Reporting Requirements, Stationary Combustion, Electricity Generation and Cogen, Miscellaneous Sectors, Cal e-GGRT Reporting	Maebeth Lopez <a href="mailto:Maebeth.Lopez@arb.ca.gov">Maebeth.Lopez@arb.ca.gov</a>
Reporting Tool Registration and General Questions	Karen Lutter <a href="mailto:Karen.Lutter@arb.ca.gov">Karen.Lutter@arb.ca.gov</a>
Electricity Retail Providers and Electricity Marketers	Abajh Singh <a href="mailto:Abajh.Singh@arb.ca.gov">Abajh.Singh@arb.ca.gov</a> Tess McDermott <a href="mailto:Tess.McDermott@arb.ca.gov">Tess.McDermott@arb.ca.gov</a>
Fuel and CO <sub>2</sub> Suppliers (Transportation Fuels, Natural Gas, LPG, and CO <sub>2</sub> )	Smadar Levy <a href="mailto:Smadar.Levy@arb.ca.gov">Smadar.Levy@arb.ca.gov</a>
Petroleum Refineries, Hydrogen Plants, Oil & Gas Production, and Associated Product Data	DJay Patel <a href="mailto:DJay.Patel@arb.ca.gov">DJay.Patel@arb.ca.gov</a>
Manager – Greenhouse Gas Verification Section	Ryan Schauland <a href="mailto:Ryan.Schauland@arb.ca.gov">Ryan.Schauland@arb.ca.gov</a>
More contact information at: <a href="https://ww2.arb.ca.gov/mrr-contacts">https://ww2.arb.ca.gov/mrr-contacts</a>	

# Questions

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