

California Environmental Protection Agency
Air Resources Board

California Regulation for the
Mandatory Reporting of Greenhouse Gas Emissions

2012 GHG Reporting
Refinery Product Data Reporting

February 28, 2013
Presentation Slides Available Here:
<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance-training.htm>

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Outline

- Introduction
- Guidance
 - Defining Refinery Products
 - Monitoring Systems
 - Blendstocks & Feedstocks Refined Off-Site
 - Ethanol
 - Products Combusted On-Site
 - Finished Products
 - Calcined Coke
 - Verification
- Resources
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Regulatory Overview

- **Mandatory Reporting Regulation (MRR)**
Section 95113(l):
 - Calcined coke added to covered product data
 - Single product data component is now “sum of all covered products”
- **Cap-and-trade allowances are allocated based on covered product data (as defined in Section 95102)**

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Refinery Product Data

- **Based on finished products**
 - Products exit refinery gates
 - Includes feedstocks and blendstocks (such as RBOB, butane, pentane, alkylate, toluene, etc.)
- **Report under section 95113 in the reporting tool**
 - All EIA categories listed in the reporting spreadsheet, unless burned onsite

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Product Data vs. Transportation Fuels

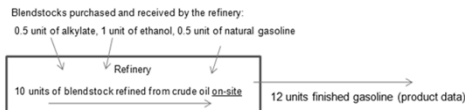
- Differentiate between section 95113 and section 95121 reporting:
 - Refinery operators report all products listed in 40 CFR Part 98 Tables C-1 and MM-1 except those combusted on-site
 - Not used for calculating emissions
 - Used to determine allocation of cap-and-trade allowances
 - Transportation fuel suppliers report only the fuel types listed in section 95121
 - Used for calculating emissions

Monitoring Systems

- Reporting entities may use an accepted method to report product data conforming to sections 95103(k), 95105(c) and 95131(b):
 - Direct meters not meeting section 95103(k)(7) but otherwise accurate to section 95103(k)
 - Sales or shipment transaction records based on financial transaction meters
 - Sales or shipment transaction records without metered product data

Blendstocks & Feedstocks

- For blendstocks and feedstocks transferred between refineries
 - Do not subtract volume of received blendstock or feedstock from reported finished product data
- Example: A refinery receives crude oil, converts it to gasoline blendstock, then purchases other blendstocks, mixing to sell finished gasoline over a rack:
 - Report product data according to the diagram



Ethanol

Purchased for Use On-Site

- Typical for petroleum refineries
- Blended with RBOB to make finished gasoline
- Report:
 - Volume of finished gasoline blended with ethanol (EIA 125)
- ARB uses assumed blending ratio for allocation purposes

Produced On-Site

- Not typical for petroleum refineries
- Blended with RBOB to make finished gasoline
- Report:
 - Volume of ethanol, as finished product data (EIA 141)
 - Associated volume of RBOB (EIA 118)

Products Combusted On-Site

- Table C-1 includes products which are produced on-site and then burned as fuel:
 - Do not report as product data under section 95113 (since they do not leave the facility gate)
 - Report combusted products pursuant to section 95115 for stationary combustion emissions

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Calcined Coke

- Calcined coke has been added to the regulation as covered product data
 - Operator must specify whether calciner is integrated with the refinery operation
 - Subject to material misstatement evaluation
 - Used for allowance allocations in the cap-and-trade program
- Petroleum coke is not covered product data
 - Subject to a conformance check during verification
 - No allocations are based on this product

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- **Material Misstatement now applies to the sum of all covered products:**
 - Section 95113 product data is applied to the sum of all primary refinery products reported in barrels
 - Asphalt (EIA 931) may be converted to barrels by
 - EIA conversion factor of 5.5 barrels per short ton
 - Measured density at least one time per calendar year
- **Note: Hydrogen production produced by refinery operators is not a covered product. Hydrogen production is evaluated for conformance only.**

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Questions?

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Additional Training

- ARB sector-specific training (see link for times)
<http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm>
 - Mid-April - Electric Power Entities
- Contact ARB staff as needed for questions

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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)

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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
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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
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Resources

- Reporting Guidance: Applicability, Metering
<http://www.arb.ca.gov/cc/reporting/ghg-rep/guidance/guidance.htm>
- Tool Training: Registration, Subparts
<http://www.arb.ca.gov/cc/reporting/ghg-rep/tool/ghg-tool.htm>
- Cal e-GGRT Main Help Page
<http://www.ccdsupport.com/confluence/display/calhelp/Home>

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