

**Low Carbon Fuel Standard  
Working Group:**

***Compliance and  
Reporting Tool (CRT)***

**August 26, 2009**

**California Environmental Protection Agency**



**Air Resources Board**



# Group Objectives

- Review and discuss design and technical details
- Share experiences and best practices
- Determine usability of proposed designs
  - Enable timely development
- Provide insight and support
- Provide preliminary testing and feedback



# Discussion Topics

- Reporting
  - Report generation and history tracking
  - Entering fuel data and transactions records
  - Providing supporting documentation
  - Data import
  - Quarterly and annual summary report views
  - Submission requirements
- Credit/deficit tracking
  - Account balance sheet
  - Account overview – quarterly, annual
  - Credit trading (preliminary concepts only)
- Others



# LCFS Reports – Main Page



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LCFS Reports

Welcome: badams for Chevron

## LCFS Reports

Select the reporting year for which you would like to view or enter data.

Report Options:  All Reports

Reports From:  [Calendar...](#) To:  [Calendar...](#)

### Quarter 1, 2011

Report ID: 00001 [Request Correction](#) Status: **Corrected**

-	Ver.	Submission Date	Description	Submit User
	<a href="#">3</a>	6/10/2010 2:55 PM PST	Corrections approved by ARB	<a href="#">dlum</a>
	<a href="#">2</a>	4/15/2010 3:54 PM PST	Corrections submitted to ARB for review	<a href="#">jcho</a>
	<a href="#">1</a>	4/14/2010 4:55 PM PST	Initial Submission	<a href="#">badams</a>

### Quarter 2, 2011

Report ID: 00002 Status: **Open**

-	Ver.	Submission Date	Description	Submit User

### Quarter 3, 2011

[Begin Report](#) Status: None

### Quarter 4, 2011

[Begin Report](#) Status: None

### Annual, 2011

[Begin Report](#) Status: None



# Report Details – Data Entry



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LCFS Reports > Report Details

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- Report Details**
- Manage Documents
- Report Summary

## Report Details

Report ID: 00002  
Organization: Chevron

Status: **Open**  
Reporting Period: Q1, 2011

The carbon intensities of the gasoline and diesel standards for 2011 are: Gasoline: 95.61 gCO2/MJ  
Diesel: 94.47 gCO2/MJ

### Reported Fuels:

- [CARBOB](#) [Delete](#)
- [Ethanol](#) [Delete](#)
- [Hydrogen](#) [Delete](#)
- [CNG](#) [Delete](#)
- [Electricity](#) [Delete](#)

[Add New Fuel](#)

### CARBOB Accounting Sheet

\* Items in red box indicate dropdown fields

[Import Data](#)

Fuel Name	Fuel Pathway Code	CI (g/MJ)	Physical Pathway Code	EER	Obligated Amount	Units	Credits (MT)	Deficits (MT)
CARBOB	CB001	95.86	Not REQ	1.0	1,914,090	gal		(438,743)

### Transaction Details

Start Date	End Date	Transaction Category	Description	(+) Amount	(-) Amount	(O) Amount	PTD
1/1/2011	1/6/2011	Production or Import	Production amount	10,000			
1/2/2011	1/7/2011	Transfer: Release Oblig.	Amount sold to Shell		(5,000)		PTD #00001.pdf
1/3/2011	1/8/2011	Transfer: Retain Obligation	Amount sold to Shell			500	PTD #00002.pdf
1/5/2011	1/10/2011	Acquire: Without Obligation	Purchased from BP			900	PTD #00003.pdf
1/6/2011	1/11/2011	Acquire: With Obligation	Purchased from BP again	909,090			PTD #00004.pdf

[New](#)

[Edit](#)

[Delete](#)

[Save](#)



# Report Summary – Quarterly



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LCFS Reports > Report Summary

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- Report Details
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## Report Summary

Report ID: 00002  
Organization: Chevron

Status: **Open**  
Reporting Period: Q1, 2011

### Reported Fuels

Fuel Name	Fuel Pathway Code	CI (g/MJ)	Physical Pathway Code	EER	Obligated Amount	Units	Credits (MT)	Deficits (MT)	Balance (MT)
<a href="#">CARBOB</a>	CB001	95.86	Not REQ	1.0	741,800,000	gal		(41,382)	(41,382)
<a href="#">Ethanol</a>	EH001	99.40	PP001	1.0	27,000,000	gal	41,100		(282)
<a href="#">Natural Gas</a>	NG001	68.80	PP004	1.0	30,000,000	scf	1,367		1,035
<a href="#">Electricity</a>	EL001	124.10	PP010	3.0	10,000	KWh	3		1,037
<a href="#">Electricity</a>	EL002	104.70	PP10	3.0	5,000	KWh	10		1,047
<a href="#">Electricity</a>	EL002	104.70	PP10	2.7	1,000	KWh	8		1,052

Total Credits/Deficits Generated (MT): 1052

### Supporting Documentation

Date	File Name	Description	Category
1/11/2011	<a href="#">PTD001.pdf</a>	PTD for transaction on xx	Transfer Document
1/12/2011	<a href="#">PTD002.pdf</a>	PTD for transaction on yy	Transfer Document
1/13/2011	<a href="#">Sales_contract.doc</a>	Sales contract with Shell	Contract
1/14/2011	<a href="#">Calculation.xls</a>	Calculation showing...	Calculation
1/15/2011	<a href="#">Sales_contract.jpg</a>	Sales contract...	Contract

**Submit Report**



# Report Summary – Annual



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LCFS Reports > Report Summary

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## Annual Report Summary

Report ID: A00001

Status: **Open**

Organization: Chevron

Reporting Period: 2011

- Q1 Report ^

Fuel Name	Fuel Pathway Code	CI (g/MJ)	Physical Pathway Code	EER	Obligated Amount	Units	Credits (MT)	Deficits (MT)	Balance (MT)
<a href="#">CARBOB</a>	CB001	95.86	Not REQ	1.0	741,800,000	gal		(41,382)	(41,382)

[same content as quarterly report summary view]

### Supporting Documentation

[same content as quarterly report summary view]

- + Q2 Report
- + Q3 Report
- + Q4 Report

- + Credit Summary ^
- [same content as quarterly credit summary view]

**Submit Report**



# Submitting Correction Request



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LCFS Reports > Report Details

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- Report Details**
- Manage Documents
- Report Summary

## Report Details: Correction Request

Report ID: 00002  
Organization: Chevron

Status: **Correction Pending**  
Reporting Period: Q1, 2011

The carbon intensities of the gasoline and diesel standards for 2011 are: Gasoline: 95.61 gCO<sub>2</sub>/MJ  
Diesel: 94.47 gCO<sub>2</sub>/MJ

### Reported Fuels:

- [CARBOB](#) [Delete](#)
- [Ethanol](#) [Delete](#)
- [Hydrogen](#) [Delete](#)
- [CNG](#) [Delete](#)
- [Electricity](#) [Delete](#)

[Add New Fuel](#)

### CARBOB Accounting Sheet

\* Items in red box indicate dropdown fields

[Import Data](#)

Fuel Name	Fuel Pathway Code	CI (g/MJ)	Physical Pathway Code	EER	Obligated Amount	Units	Credits (MT)	Deficits (MT)
CARBOB	CB001	95.86	Not REQ	1.0	1,914,090	gal		(438,743)

Transaction Details

[all elements same as Report Details page]

[New](#)

[Edit](#)

[Delete](#)

### Enter reason for correction

Corrected volume for CARBOB on transaction on 1/1/2011. Original volume was 1,000,000 gal. Corrected volume is 2,000,000 gal.

[Save](#)



# LCFS Credits - Main Page



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LCFS Credits

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[Credit Balance](#)

[Credit Transactions](#)

[Credit Summary](#)

## LCFS Credits

### LCFS Credit/Deficit Verficiation

All LCFS credits and deficits reported, posted, and calculated herein are subject to ARB review and verification.

[enter legal text]



# Credit Balance Sheet



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LCFS Credits > Credit Balance

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- Credit Balance**
- Credit Transactions
- Credit Summary

## Credit Balance

Date Options:  All Dates

\* Green lines indicate sortable fields

From:   To:    
mm/dd/yyyy

Ref. No.	Date	Description	Credits (MT)	Deficits (MT)	Balance (MT)
<a href="#">00001</a>	3/31/2011	Q1 2011 credits/deficits generated	1,520		1,052
<a href="#">00002</a>	6/31/2011	Q2 2011 credits/deficits generated		(1,000)	52
<a href="#">A1210212</a>	7/1/2011	Credits purchased from OrgID: 0001234	1,000		1,052
<a href="#">E5656444</a>	8/1/2011	Credits exported to AB32 program		52	1,000
<a href="#">00003</a>	9/15/2011	Q3 2011 credits/deficits generated	2,000		3,000
<a href="#">00004</a>	12/31/2011	Q4 2011 credits/deficits generated		(500)	2,500
<a href="#">S4576764</a>	12/31/2011	Credits sold to OrgID: 1231545		(100)	2,400
<b>Ending Balance (MT):</b>					<b>2,400</b>

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Notes:

Reported submitted on 5/15/2011 for end of quarter posting date of 3/31/2011. [system generated notes for items requiring additional information]



# Credit Summary View - Quarterly



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LCFS Credits > Credit Summary

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- Credit Balance
- Credit Transactions
- Credit Summary**

## Credit Summary

View Options:  Quarterly  Annual Select Year:  V

Options:  
2010  
2011  
2012  
.....

2011	Q1: Jan. 1 to March 30	Q2: April 1 to June 30	Q3: July 1 to Sept. 30	Q4: Oct. 1 to Dec. 31	Total (MT)
Beginning Balance	0	(1,382)	1,618	62,529	
Credits/Deficits Generated	(41,382)	(47,000)	(39,000)	(38,146)	(165,528)
Credits Purchased	40,000	50,000	100,000	0	190,000
Credits Sold	0	0	(89)	(10,000)	(10,089)
Credits Exported	0	0	0	(2,000)	(2,000)
Credits Retired	0	0	0	0	0
Ending Balance	(1,382)	1,618	62,529	12,383	<b>12,383</b>

Attention Required

[System Generated Text: if Total credit/deficit was negative and the credit/deficit ratio was not met, a note will appear to indicate to regulate party to contact ARB. Note will also be displayed in Home page]



# Credit Summary View - Annual



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LCFS Credits > Credit Summary

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- Credit Balance
- Credit Transactions
- Credit Summary**

## Credit Summary

View Options:  Quarterly

Annual Select Years:

Options:  
All Years  
2010 to 2015  
2016 to 2020  
Custom years

Year	2010	2011	2012	2013	Total (MT)
Beginning Balance	Reporting Only	0	12,383	73,294	
Credits/Deficits Generated	-	(165,528)	(39,000)	Not Available	(204,528)
Credits Purchased	-	190,000	100,000	Not Available	290,000
Credits Sold	-	(10,089)	(89)	Not Available	(10,178)
Credits Exported	-	(2,000)	0	Not Available	(2,000)
Credits Retired	-	0	0	Not Available	0
Ending Balance	0	12,383	73,294		<b>73,294</b>

### Attention Required

[System Generated Text: If a deficit is incurred on 2 consecutive years, a note will appear to indicate to regulated party to contact ARB. Note will also be displayed in Home page.]





# Credit Transactions – Prelim. Concepts



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LCFS Credits > Credit Transaction

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## Credit Transaction

Complete all fields

Date:  [Calendar...](#)  
mm/dd/yyyy

Activity:  [View Credit Board](#)

Quantity:  MT  
Available balance: 2,400 MT

Selling Price: \$  per unit credit

Total: \$

Memo:

Export  
Retire  
Sell

For credit purchase  
TBD 2010

**Continue**



# Credit Transaction - Confirmation



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LCFS Credits > Credit Transaction

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Credit Transaction

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## Credit Transaction

Are you sure you want to make this transaction?

Date: 5/15/2011  
Activity: Sell  
Quantity: 100 MT  
Selling Price: \$500/credit  
Total Price: \$50,000  
Memo: Posted for sale

Confirm

Cancel



## Next Major Steps

- Begin development on Reporting and Credit Tracking functionalities
- Lock down database schema and data definitions to support XML for importing



# Questions/Comments

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