

Low Carbon Fuel Standard

April 7, 2016

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Fuels Section

Transportation Fuels Branch

Industrial Strategies Division

California Environmental Protection Agency

 **Air Resources Board**

Outline

- Program background
- How do I register in the system?
- How do I generate credits?
- How do I sell credits?

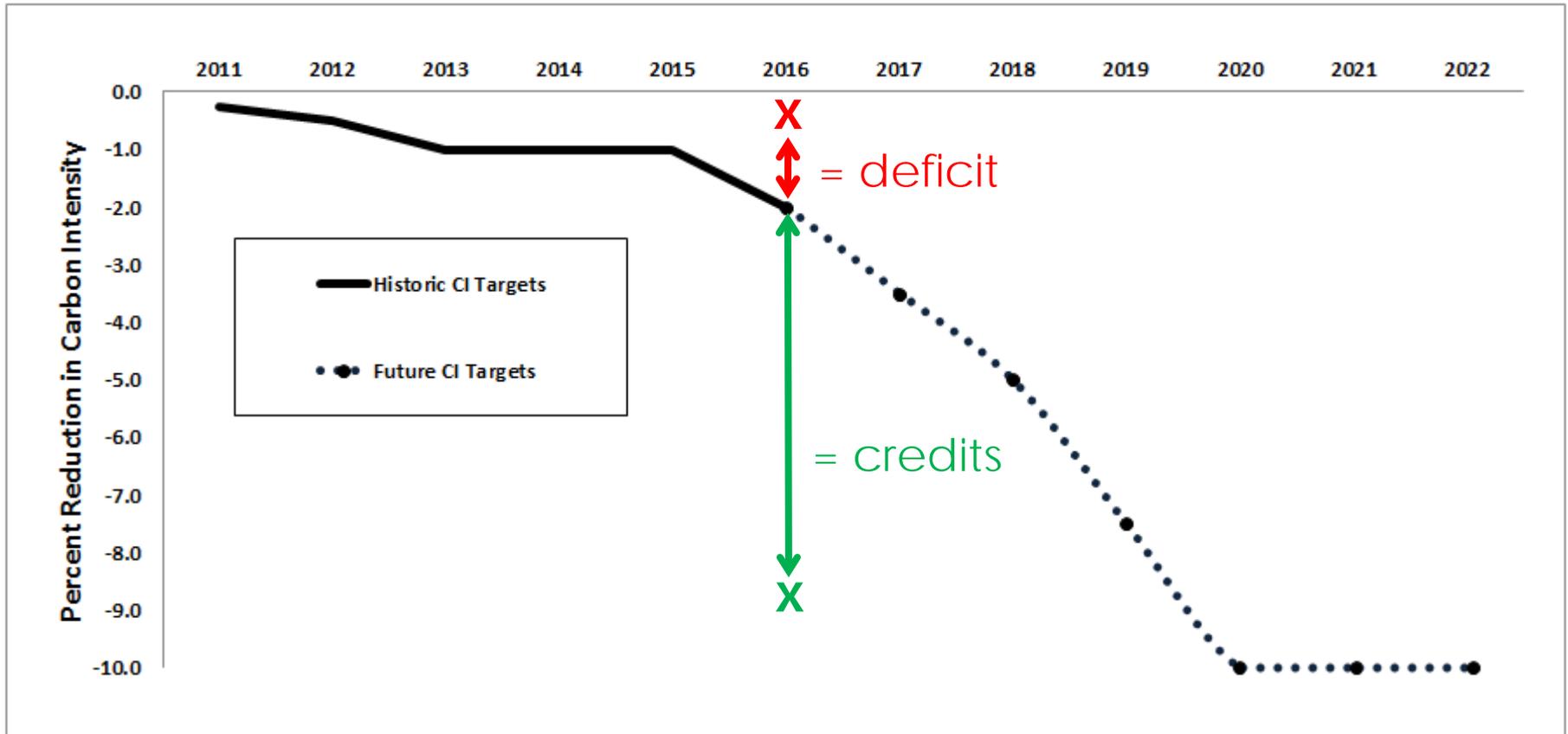
Program Background

Low Carbon Fuel Standard (LCFS)

- Originally adopted in 2009, compliance began 2011, re-adopted in 2015 to address legal issues
- Goal: Reduce Carbon Intensity (CI) of California transportation fuel pool by at least 10% by 2020 and beyond
- CI is carbon footprint score of fuel based on well-to-wheel analysis
- Expected Benefits
 - Reduce Greenhouse Gas (GHG) emissions
 - Transform and diversify fuel pool
 - Reduce petroleum dependency



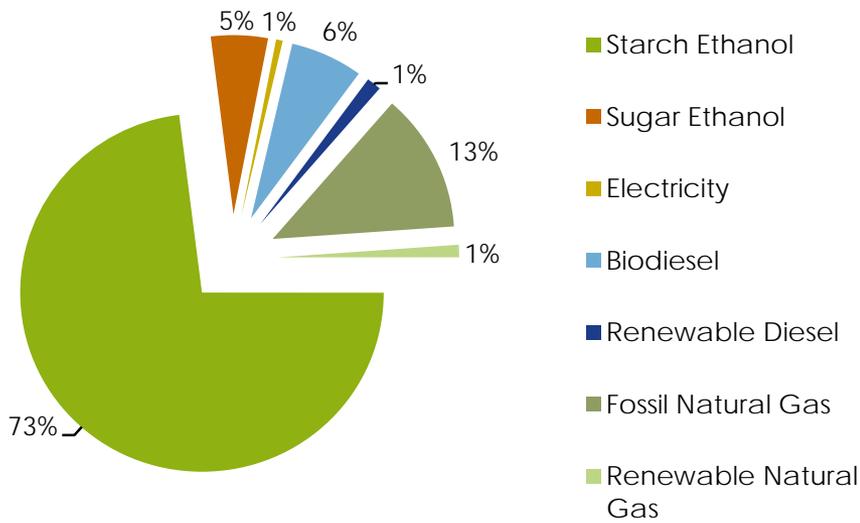
How Does LCFS Work?



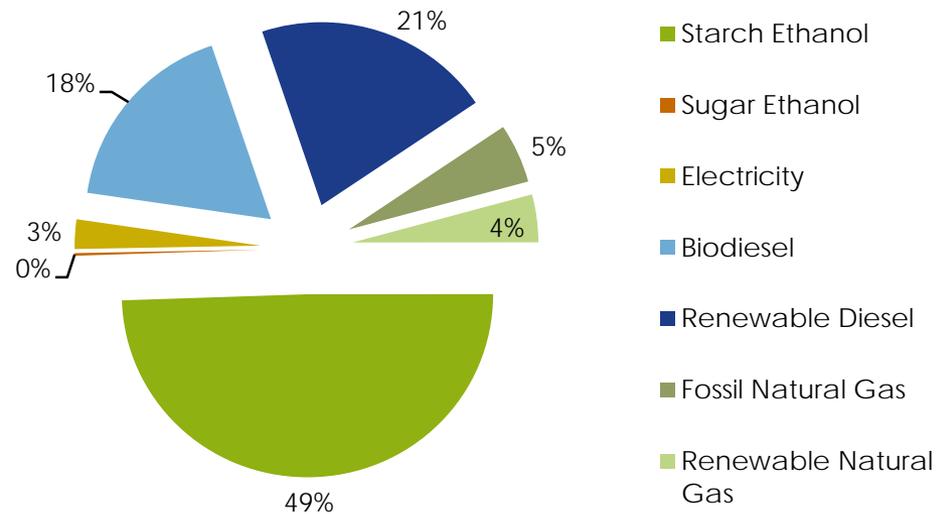
- Fuels above standard generate **deficits**
- Fuels below standard generate **credits**
- Program continues with a 10% CI target post 2020

Alt Fuel Diversity is Increasing: 2011 vs. 2014

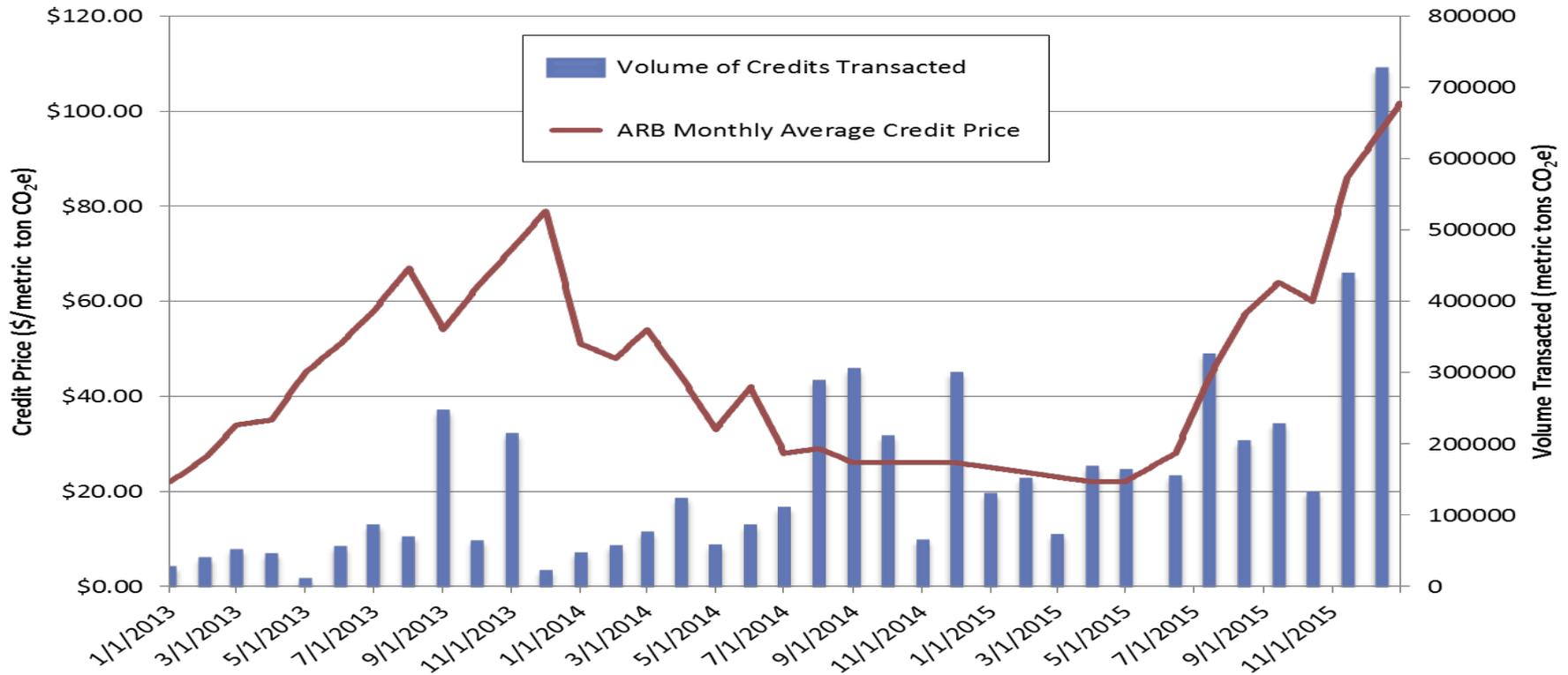
LCFS Credits 2011 - 1.3 MMT
CO2e



LCFS Credits 2014 - 4.1 MMT
CO2e



LCFS Credit Price and Volume Trend



A Wide Range of Carbon Intensities Exist for Various Fuels

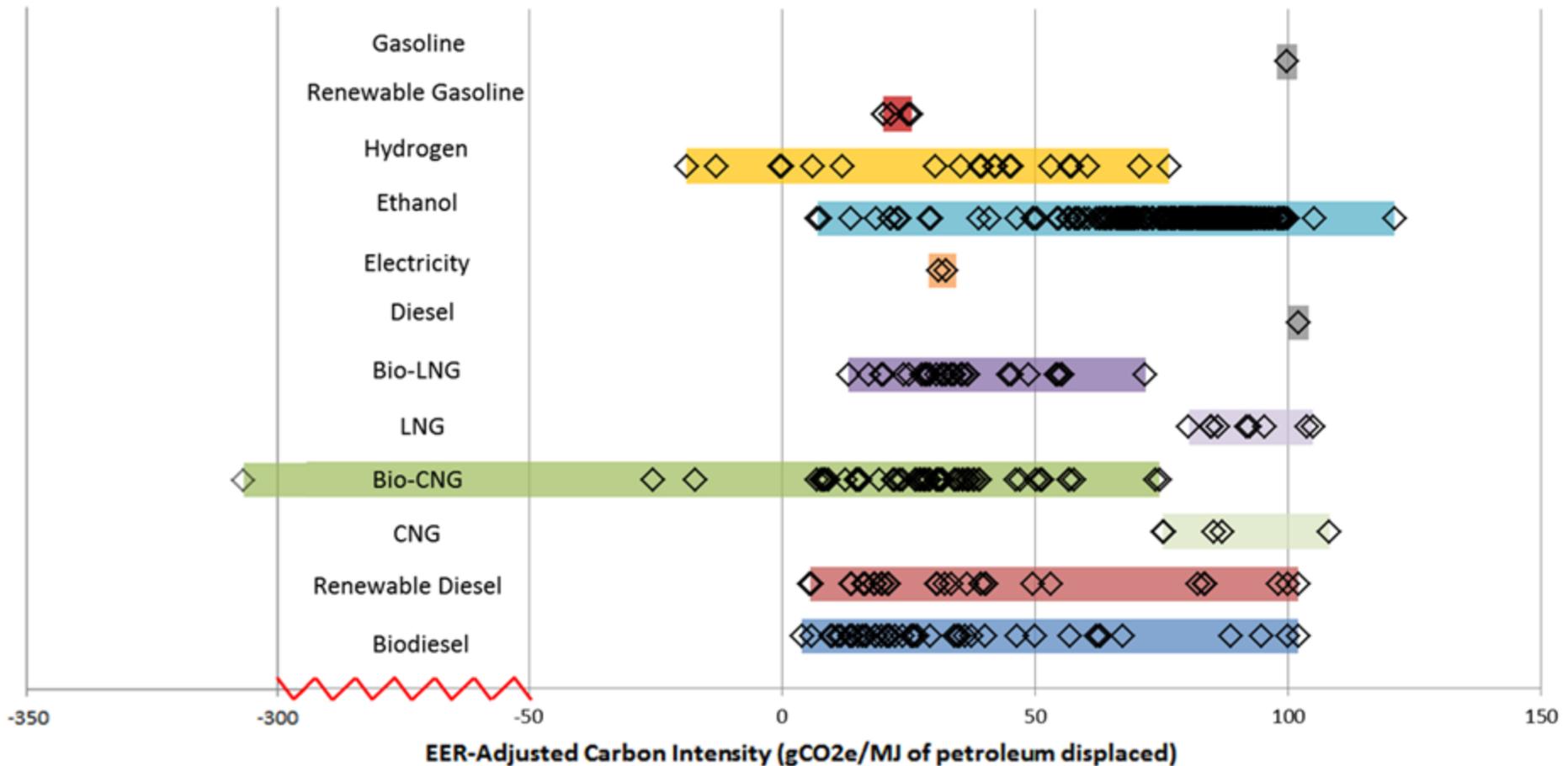


Figure shows CI pathways certified as of Dec 15

Transit Agencies are Credit Generators

- Refineries and other providers of high carbon petroleum fuels generate deficits
- Transit agencies, public fleets, and school districts, **will only generate credits**, not deficits

LCFS Credit Generation Eligibility

Fuel	Vehicle	1 st in line	2 nd in line
Electricity	Bus	EV Fleet Operator	Utility
Electricity	Fixed Guideway	System Operator	Utility
Hydrogen	Bus	Fuel Provider	Station Owner/Fleet Operator*
Renewable NG	Bus	Fuel Provider	Station Owner/Fleet Operator*
Fossil NG	Bus	Station Owner	
Renewable Diesel	Bus	Fuel Provider	
Biodiesel	Bus	Fuel Provider	

- The entity eligible to generate credits varies by fuel type
- In some cases a secondary credit generator is eligible if the primary credit generator has not opted-in or has chosen to not generate credits

* The option to generate credits can be contractually passed to these entities

Approximate Credit Revenue for Transit Buses

Bus Fuel Type	Example CI (gCO ₂ e/MJ)	Fuel Efficiency		Credit Revenue Per Mile (LCFS credit value \$100)	Annual Credit Value (based on an annual mileage of 40,000)
Diesel	102	3.8	mile/dge	\$0.00	\$0
Fossil LNG & CNG	89	3.4	mile/dge	\$0.07	\$2,858
Renewable Natural Gas	25	3.4	mile/dge	\$0.29	\$11,415*
Hydrogen	42	6.5	mile/kg	\$0.20	\$8,102*
Electricity**	31	0.5	mile/kWh	\$0.23	\$9,064

* Generally fuel providers claim the credits, and savings are reflected in fuel price.

** LCFS credit revenue for electricity is based on the current California grid electricity mix. The credit revenue will be higher as renewable electricity in the grid increases.

Fixed Guideway Systems

- Definition: A system of public transit **electric** vehicles that can operate only on its own guideway constructed specifically for that purpose (such as light rail, heavy rail, cable car, street car, and trolley bus)
- Systems expansion beyond 2010, including extensions to existing track, receive more credit than systems in place prior to 2010

Fixed Guideway System Type	Benefit per KWh for existing system (before-2010)	Benefit per KWh for new system (post-2010)
Heavy Rail	¢2.78	¢12.77
Light Rail	¢2.45	¢8.09
Trolley Bus, Cable car, Street Car	¢2.38	¢7.37

**Estimates made for LCFS credit value of \$100/credit*

Demonstrations

- LCFS Account Registration
- LCFS Reporting
- Credit Generation
- Credit Transfer

How Do I Register in the System?

- To prepare to generate credits you must register as an opt-in party in the LCFS Reporting Tool and Credit Bank & Transfer System (LRT-CBTS) www.arb.ca.gov/lcfsrt
- Registration Steps:
 - **Step 1:** Download/complete the “LRT-CBTS Account Registration Form”
 - **Step 2:** Upload the completed “LRT-CBTS Account Registration Form”
 - **Step 3:** Agree to LRT-CBTS General Use Conditions & Disclaimer
 - **Step 4:** Provide Organization and Administrator details

Step 1

Step 1. Completing the “LRT-CBTS Account Registration Form”

The LCFS Data Management Systems are comprised of two tightly integrated modules including the LCFS Reporting Tool (LRT) and the Credit Bank & Transfer System (CBTS) along with the Alt. Fuels Portal (AFP). The LRT supports the quarterly and annual reporting by Reporting Parties (RP) subject to the LCFS. The CBTS supports the transfer of credits between buyers and sellers participating in the LCFS. The registration involves a series of four steps before an account can be submitted. The information provided is reviewed by the LRT administrator for approval.

To establish an account in the LRT-CBTS, a reporting party must qualify pursuant to LCFS section 95483 or 95483.1. A reporting party that desires to establish separate accounts for separate subsidiaries must register each subsidiary separately. Each company that receives a user account must file quarterly and annual reports and demonstrate compliance separately.

Completing the “LRT-CBTS Account Registration Form”

The Account Registration Form is provided here for download. This form is to be used to establish the “Basis” for the registration and to certify the person as the Primary Administrator who has primary responsibility for all information provided as part of the registration process in the LCFS Reporting Tool and Credit Bank & Transfer System (LRT-CBTS). It also identifies a Secondary Administrator for the account. The Administrators are responsible for all data submitted by the registering party and the account administration for the organization/company. A completed LRT-CBTS Account Registration Form is required to be uploaded in Step 2 of the LRT-CBTS registration process. See the instructions included in this form.

[Account Registration Form](#)

← Click on the link to download the Account Registration Form

Step 2

Cancel

LOW CARBON FUEL STANDARD
ACCOUNT REGISTRATION FORM
(Version 1.0)

Step 1

Instructions: The certification must be signed and dated by the account administrators. A pdf version must be uploaded into the online LRT-CBTS. Please complete the form with all the required signatures and upload it in Step 2 and then submit the uploaded form with the Organization Registration in Step 4.

The original form with signatures must be mailed to the address below. Include a cover letter on company letterhead with the completed form as an attachment.

Mail original copy to:
California Air Resources Board
c/o Low Carbon Fuel Standard Program
P.O. Box 2815 Sacramento, CA 95812

NOTE: The form must be signed by the business owner, a managing partner, or a corporate officer.

The basis for the registration of ABC Company as an LCFS Reporting Party is provided below.
(Organization/Company Name)

Select one or more fuels/blendstocks from the following list for which your organization/company is a "Regulated Party" under the LCFS Program per section 95483 of the LCFS regulation:

- California reformulated gasoline blendstock for oxygenate blending ("gasoline" or "CARBOB")
- California diesel fuel ("diesel fuel" or "ULSD")
- Fossil liquefied natural gas ("Fossil LNG"), or fossil liquefied compressed natural gas ("Fossil L CNG")
- A fuel blend containing greater than 10 percent ethanol by volume
- A fuel blend containing biomass-based diesel
- Denatured fuel ethanol ("E100")
- Neat biomass-based diesel ("B100")
- Any other liquid or non-liquid fuel

Also, complete the following if your company is opting into the LCFS Program as an "Opt-In" Party per section 95483.1 of the LCFS regulation:

- A producer of one or more fuels from the following list of "opt-in" fuels specified in section 95482(b) and meets the requirements of section 95483(d), (e) or (f), whichever applies to that fuel as selected below:
 - Electricity
 - Hydrogen
 - A hydrogen blend
 - Fossil CNG derived from North American sources
 - Bio-CNG
 - Bio-LNG
 - Bio-L-CNG

Step 1

- An out-of-state producer of oxygenate for blending with CARBOB or gasoline, or biomass-based diesel for blending with CARB diesel, who is not otherwise subject to the regulation as an importer. A credit generator under this subsection may retain the compliance obligation, for a specific volume of fuel or blendstock, only if that person sells the fuel to a regulated party.
- A person ("intermediate entity") who is in the distribution/marketing chain of imported fuel and is positioned on that chain between the section 95483.1(a)(2) producer and the importer. See section 95483.1(a)(3).
- The gas company, utility, or energy service provider that supplies natural gas ("natural gas supplier") to a person that falls within the provisions of section 95483(d). See section 95483.1(a)(4).
- A producer of crude oil that has an innovative production method approved by the Executive Officer under section 95489(d). See section 95483.1(a)(5).

As CEO, with authority to legally bind ABC Company
(Title) (Organization/Company)

I, Smith Milton, am designating the following individuals as account administrators.
(Type Name)

PRIMARY ACCOUNT ADMINISTRATOR

The Primary Account Administrator is: Jacob Nash
(Type Name)

Account Administrator Attestation I certify under penalty of perjury under the laws of the State of California as follows: I was selected as the primary account administrator by persons who have the legal right to control LCFS credits held in the account. I have all the necessary authority to carry out the duties and responsibilities contained in California Code of Regulations, title 17, sections 95480 et seq. on behalf of such persons and that each such person shall be fully bound by my representations, actions, inactions, or submissions and by any order or decision issued to me by the Executive Officer or a court regarding the account.

Signature of Primary Account Administrator:

Signature (Ink Only) _____ Date 04/07/2016

Print Name Jacob Nash

SECONDARY ACCOUNT ADMINISTRATOR

The Secondary Account Administrator is: Louis Smith
(Type Name)

Account Administrator Attestation I certify under penalty of perjury under the laws of the State of California as follows: I was selected as the secondary account administrator by persons who have the legal right to control LCFS credits held in the account. I have all the necessary authority to carry out the duties and responsibilities contained in California Code of Regulations, title 17, sections 95480 et seq. on behalf of such persons and that each such person shall be fully bound by my representations, actions, inactions, or submissions and by any order or decision issued to me by the Executive Officer or a court regarding the account.

Signature of Secondary Account Administrator:

Signature (Ink Only) _____ Date 04/07/2016

Print Name Louis Smith

OWNER/ MANAGING PARTNER/ CORPORATE OFFICER*

Signature of Owner/Officer/Managing Partner:

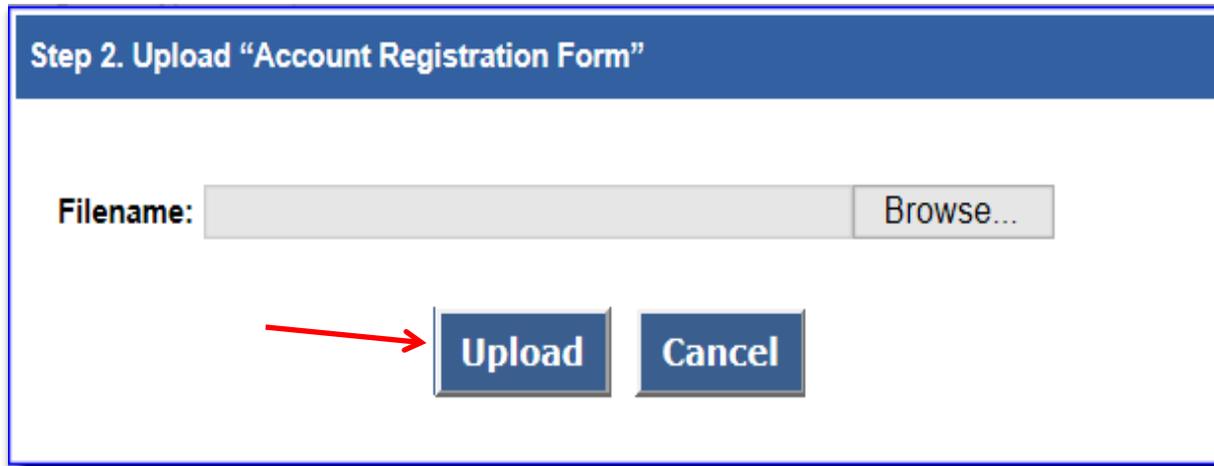
Signature (Ink Only) _____ Date 04/07/2016

Print Name Smith Milton

*Only Owners, Officers or Managing Partners responsible for the company's fuel production facilities and having authority to legally bind the company should complete and sign this form.

Step 2

- Complete and sign the Form and save as PDF
- Upload the completed Form



Step 2. Upload "Account Registration Form"

Filename: Browse...

Step 3

- Agree to LRT-CBTS general use conditions & disclaimer

Step 3. LRT-CBTS General Use Conditions & Disclaimer

Data Submittal

The accuracy of any information submitted through the LCFS Reporting Tool and Credit Bank & Transfer System (LRT-CBTS) including but not limited to any claimed CI values, and the verification of any such submitted information is the sole responsibility of the Reporting Party that submitted the information. The ARB makes no warranties, expressed, implied, or otherwise, as to the validity, accuracy, marketability, merchantability, or any other aspect of any information submitted under this registration program or any information published by ARB as a result of or derived from this registration. No data, analysis, results, or other information that may be published by ARB as a result of registration shall constitute or be construed as instruments, securities, or any other form of property. Further, no LCFS credit derived from the registration data, analysis, results or other registration information published by ARB shall constitute or be construed as instruments, securities, or any other form of property.

Verification

ARB reserves the right to review and audit at any time any of the information submitted through this online system and, as a result, data, analysis, results, or other registration information published by ARB are subject to change.

Attestation Submittal included with Quarterly and Annual Reports

In order to submit a quarterly or annual report for processing and credit generation, you will be required to complete and submit the appropriate attestation incorporated into each quarterly and annual report.

I agree to these conditions.

Ensure you have checked the box after reading the Terms of Use

Step 4 **Cancel**

Step 4

LCFS Organization Registration

Registration of Reporting Party in LCFS

Select any applicable fuels/blendstocks from the following list for which your organization/company is a "Regulated Party" under the LCFS Program per section 95483 of the LCFS regulation:

- California reformulated gasoline blendstock for oxygenate blending ("gasoline" or "CARBOB")
- California diesel fuel ("diesel fuel" or "ULSD")
- Fossil liquefied natural gas ("Fossil LNG"), or fossil liquefied compressed natural gas ("Fossil L CNG")
- A fuel blend containing greater than 10 percent ethanol by volume
- A fuel blend containing biomass-based diesel
- Denatured fuel ethanol ("E100")
- Neat biomass-based diesel ("B100")
- Any other liquid or non-liquid fuel

Also, complete the following if your company is opting into the LCFS Program as an "Opt-In" Party per section 95483.1 of the LCFS regulation:

A producer of one or more fuels from the following list of "opt-in" fuels specified in section 95482(b) and meets the requirements of section 95483(d), (e) or (f), whichever applies to that fuel as selected below:

- Electricity
- Hydrogen
- A hydrogen blend
- Fossil CNG derived from North American sources
- Bio-CNG
- Bio-LNG
- Bio-L-CNG

An out-of-state producer of oxygenate for blending with CARBOB or gasoline, or biomass-based the LCFS regulation as an importer. A credit generator under this subsection may retain the compliance obligation, for a specific volume of fuel or blendstock, only if that person sells the fuel to a regulated party.

A person ("intermediate entity") who is in the distribution/marketing chain of imported fuel and is positioned on that chain between the section 95483.1(a)(2) producer and the importer. See section 95483.1(a)(3).

The gas company, utility, or energy service provider that supplies natural gas ("natural gas supplier") to a person that falls within the provisions of section 95483(d). See section 95483.1(a)(4).

A producer of crude oil that has an innovative production method approved by the Executive Officer under section 95489(d). See section 95483.1(a)(5).

Organization Details

Authorization Form: 2014_supplemental_information_protected_mje5ysmr8rY.pdf LRT-CBTS General Use Conditions

Organization Name: * ABC Company FEIN: * X-XXXXX (Federal Employer Identification Number)

Address Line 1: * 1001 I street Address Line 2: Enter Address Line 2

City: * Sacramento State Or Province: * California

Zip Code: * 95833 Country: * UNITED STATES

Email: Enter Email

Do you want the email address entered above (which is optional) to be included in the list of Reporting Parties published on the ARB website?

Primary Contact

Primary Contact Name: * Jacob Nash

Business Phone: * (999) 999-9999 Mobile Phone: () - -

Email: * Jacob.N@MNB.com

Primary Administrator Details

First Name: * Jacob Middle Initial: Initial

Last Name: * Nash

Business Phone: * (999) 999-9999

Mobile Phone: () - -

Email: * Jacob.N@MNB.com Confirm Email: * Jacob.N@MNB.com

User Name: * AMD_ABC

Password: * Password Confirm Password: * Password * Required

Note: Password length must be between 7 and 16 alphanumeric characters. Include at least one upper and lower case letter and one numeric character.

Register Organization

Back

How Do I Generate Credits?

- If desired, register for an individual carbon intensity pathway
 - Defaults available for electricity, hydrogen
 - Fossil natural gas must request an individual CI by the end of 2016
- Submit reports indicating the amount of fuel dispensed

	Compliance Timelines	
	Upload Deadlines	Submit Deadlines
Q1 Reporting	May 15	June 30
Q2 Reporting	August 14	September 30
Q3 Reporting	November 14	December 31
Q4 Reporting	February 14 of the following year	March 31 of the following year
Annual Reporting	April 30 of the following year	

- Credits are saleable after these quarterly deadlines, never expire

LRT-CBTS Login

The screenshot shows a web browser window with the URL <https://lcsint.arb.ca.gov/LCFSRT/Login>. The page header includes the California Air Resources Board logo, the text "California Environmental Protection Agency AIR RESOURCES BOARD", and the version number "Version: V2.9302". A red banner reads "For Reporting Use Only" with a "Contact ARB" link.

The main content area features a background image of a blue sky with white clouds. On the left, the text reads "LOW CARBON FUEL STANDARD" in large white letters, with the subtitle "Reducing the Carbon Intensity of California Transportation Fuels" below it.

On the right, there is a login form titled "LRT-CBTS & AFP Login" enclosed in a red rounded rectangle. The form contains two input fields: "Username:" with the value "ABC_Company" and "Password:" with a masked password of ".....". Below the fields is a blue "Login" button.

Below the login form, there is a section titled "Low Carbon Fuel Standard Reporting Tool and Credit Bank & Transfer System (LRT-CBTS)". This section contains two buttons and their corresponding descriptions:

- LRT-CBTS Account**: Click the "LRT-CBTS Account" if you are the designated administrator for LCFS Quarterly and Annual Reporting and have not registered your organization. Upon account approval by ARB you will be able to login and assign roles to other users. Only users assigned "Signatory Authority" are able to submit LCFS reports. If you are an employee of a registered organization and you are only in need of a user account, please contact the administrator for your organization.
- CBTS Broker Account**: Click the "CBTS Broker Account" if you need an account solely for transferring LCFS credits. You will be registered as a "Broker" in the system upon account approval by ARB and will be notified by email. You will be added to the list of registered brokers. LCFS Regulated Parties will be able to select brokers from the list of registered brokers.

Reporting – Step 1.

- Home
- User Profile
- Org Profile
- MyBrokers
- Sell Board
- Transfers
- Ledger
- Partners
- Producers
- FPC
- LCFS Reports**
- Data
- Correspondence

Welcome jacob Nash for ABC Company

LCFS Quarterly Report Details

Organization: ABC Company
Status: Open

Reporting Period: Quarter 1, 2016

LCFS CI Requirements for 2016: Gasoline/Gasoline Substitute Fuels = 96.5 gCO₂/MJ Diesel/Diesel Substitute Fuels = 99.97 gCO₂/MJ

Upload Report (XML or Excel)

Add New Fuel

Fuel Name * Electricity
Fuel Application * HDV-BEV or PHEV Bus
Fuel Pathway Code * California grid electricity
Carbon Intensity (g/MJ) : 105.16 Fuel Units : kWh Energy Economy Ratio : 4.20

Add Fuel Reset

Transactic Details	Fuel Name	Fuel Pathway Code	CI (g/MJ)	Fuel Application	Total Obligated Amount	Total Obligated Amount On Pending	Unit	Credits (MT)	Credits Pending (MT)	Deficits (MT)	Delete Fuel
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No records to display.

Page size: 20

0 items in 1 pages

Credits/Credits on Hold/Deficit Totals (MT) : 0 0 0

Upload Documents

Back To Reports Home

Reporting – Step 2

Home User Profile Org Profile MyBrokers Sell Board Transfers Ledger Partners Producers FPC LCFS Reports Data Correspondence

Welcome jacob Nash for ABC Company

LCFS Quarterly Report Details

Organization: ABC Company
Status: Open

Reporting Period: Quarter 1, 2016

LCFS CI Requirements for 2016: Gasoline/Gasoline Substitute Fuels = 96.5 gCO₂/MJ Diesel/Diesel Substitute Fuels = 99.97 gCO₂/MJ

Upload Report (XML or Excel)

Add New Fuel

Fuel Name *

Fuel Application *

Fuel Pathway Code *

Carbon Intensity (g/MJ) : Fuel Units : Energy Economy Ratio :

Add Fuel

Reset

Transactic Details	Fuel Name	Fuel Pathway Code	CI (g/MJ)	Fuel Application	Total Obligated Amount	Total Obligated Amount On Pending	Unit	Credits (MT)	Credits Pending (MT)	Deficits (MT)	Delete Fuel
Goto Details	Electricity	ELC002_1	105.16	HDV-BEV or PHEV Bus	85,000	0	kWh	96	0	0	

Page size: 20 1 items in 1 pages

Credits/Credits on Hold/Deficit Totals (MT) : 96 0 0

Upload Documents

Check Your Credit Balance

Welcome: James Tindel for Topical Fuel

Credit Balance

Compliance Year	Credit
> 2016	
> 2015	
> 2014	
> 2013	

2016 Summary To Date

Credit Transactions	Amount
Credits Carried Over	0
Credits Generated	96
Administrative Credit Hold	0
Pending Sale	0
Credits Acquired	0
Carryback Credits Acquired	0
Credits Sold	0
Credits Retired	0
Credits Exported	0

For Compliance Determination:

Credit Balance	96
Compliance Obligation	0
(Credits Retired)/(Compliance Obligation)	Annual Report Pending
Previous (Credits Retired)/(Compliance Obligation)	Annual Report Pending

[Print Balance](#)

Last Post	Annual Summary
/22/2016	Summary To Date
/04/2016	Summary To Date
/22/2016	Annual Summary
/22/2016	Annual Summary



How do I sell credits?

- The major refiners are the primary buyers in the LCFS
- Brokers are also available to facilitate credit transactions
- The credits can be bilaterally transferred between buyers and sellers

List of Registered Brokers

Broker	Company	Phone
Jeff A Hove	RINAlliance, Inc	(515) 224-7545
David Dunn	Progressive Fuels Limited	(239) 390-2885
Dusty Granet	BGC Environmental Brokerage Services, L.P.	(646) 346-6899
Jason Sawicki	Progressive Fuels Limited	(239) 390-2885
Andrew J Emerson	Progressive Fuels Limited	(239) 390-2885
Leonard D Hochschild	Evolution Markets Inc.	(415) 963-9120
Samantha Katz	BGC Environmental Brokerage Services, L.P.	(415) 296-1432
Noah Verleun	Global Clean Energy Holdings	(310) 641-4234
John A Kolozak	Clear Energy Brokerage & Consulting LLC	(312) 239-0517
Kirk Belch	Amerex Brokers LLC	(281) 340-8001
Contract Administration	Anahau Energy, LLC	(310) 414-2300
Mark e Luitwieler	Peaker Energy Marketing	(832) 496-8557
Nicole F Shaughnessy	The Finerty Group, Inc.	(415) 509-7290
Jackie N Ferlita	ClimeCo Corporation	(484) 415-0501
Christopher A Dufour	GT Environmental Finance	(512) 342-2711
Brian Carroll	TFS Energy Futures LLC	(212) 943-2883
Kenya R Phillips	Crimson Renewable Energy, LP	(720) 475-5320
Boris Bernstein	ACT Commodities Inc.	(415) 741-2290
Michael S Speichert	Banyan Commodity Group LLC	(239) 494-8270
Barry G Lamb	Banyan Commodity Group	(239) 494-8270
Andy Emerson	Banyan Commodity Group LLC	(239) 494-8270
Jason Sawicki	Banyan Commodity Group, LLC	(239) 494-8270
Larry Thrall	Vireo Energy	(310) 314-5126
Edward Calvin	Chartered Energy LLC	(888) 697-8860

Selling Credits – Optional Sell Board

Credits To Sell								
							Posting Credits for Sale	Disclaimer
Posting Dates	Number of Credits	Name	Company	Email	Business Phone	Edit	Delete	
04/07/16 - 05/07/16	50	Jacob Nash	ABC Company	Jacob.N@ABC.com	(999) 999-9999			



Selling

Credit Transfer Form

Version (5/14)

No available credits to transfer.

Using the Credit Transfer eForm

Section 1. Transferor (Seller) Details

Seller Organization: Bestel Fuels

FEIN: 00-1000100

Representative: Jacob Turner

Phone Number: (999) 999-9999

Email: arpit.soni@arb.ca.gov

Notes:

Home User Profile Org

Section 2. Transferee (Buyer) Details

Buyer Organization: Select ...

FEIN:

Broker Rep.: Select ...

Phone Number:

Email:

C Company

Credit Transfers

Transfer

Section 3. Credit Transfer Details

Number To Transfer:

Price Per Credit:

Section 4. Review and Confirm

After reviewing the information entered on the CTF, print name of Seller or Buyer per the Confirmation below. By signing this form you declare that all information provided herein are true and correct to the best of your knowledge. Also, you must enter your Security Identification Code in the box below before submitting this eForm.

Seller Representative Signature

Security Identification Code

3/18/2016

Seller Confirmation Date

Submit

Save

Close

Selling Credits – Transfers in the LRT

Home User Profile Org Profile MyBrokers Sell Board **Transfers** Ledger Partners Producers FPC LCFS Reports Data Correspondence

Welcome: Jacob Nash for ABC Company

Credit Transfers

Initiate Transfer

Outgoing Transfers

TIDN	Date Posted	Date Completed	Buyer Org	Buyer Rep	Status	Price per Credit	Number Of Credits	Total Price	Seller Notes	Buyer Notes	Recall Transfer	CTF
1289	03/15/2016	03/18/2016	XYZ Ltd.	Tony M Peters	Completed	\$120.00	50	\$6,000				

- Credits move inside the system
- Money moves outside the system

Contacts:

- Jing Yuan, Ph.D., Lead Staff
jing.yuan@arb.ca.gov (916) 322-8875
- Manisha Singh, Ph.D., Manager of Fuels Section
manisha.singh@arb.ca.gov (916) 327-1501
- Sam Wade, Chief of Transportation Fuels Branch
samuel.wade@arb.ca.gov (916) 322-8263