

LCFS Dashboard

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March 8, 2016
Sacramento, CA

California Environmental Protection Agency
 Air Resources Board

Proposed Weekly Credit Transfer Activity Report Example

Table 1. LCFS Credit Transfer Activity Report for the week of Jan. 3-10 2016 *

Date Completed	Date Posted	Price \$/MT	Number	Total Price
4-Jan	21-Dec	\$120	50,000	\$6,000,000
4-Jan	22-Dec	\$50	2,000	\$100,000
4-Jan	23-Dec	\$75	10,000	\$750,000
5-Jan	23-Dec	\$120	2,000	\$240,000
5-Jan	23-Dec	\$120	500	\$60,000
5-Jan	23-Dec	\$113	1,000	\$113,000
6-Jan	28-Dec	\$120	5,000	\$600,000
6-Jan	28-Dec	\$120	20,000	\$2,400,000
6-Jan	28-Dec	\$100	5,000	\$500,000
7-Jan	28-Dec	\$120	10,000	\$1,200,000
7-Jan	28-Dec	\$120	1,000	\$120,000
7-Jan	28-Dec	\$120	500	\$60,000
8-Jan	29-Dec	\$110	10,000	\$1,100,000
8-Jan	30-Dec	\$100	500	\$50,000
8-Jan	30-Dec	\$115	2,000	\$230,000
TOTALS		Week Average Price	Week Total Credits	Week Total
		\$113.18	119,500	\$13,525,000

* Excludes 2 transfers of a total of 2,000 credits at a zero dollar price

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Proposed Dashboard Calculator: Estimated LCFS Premium for Low-CI Fuels

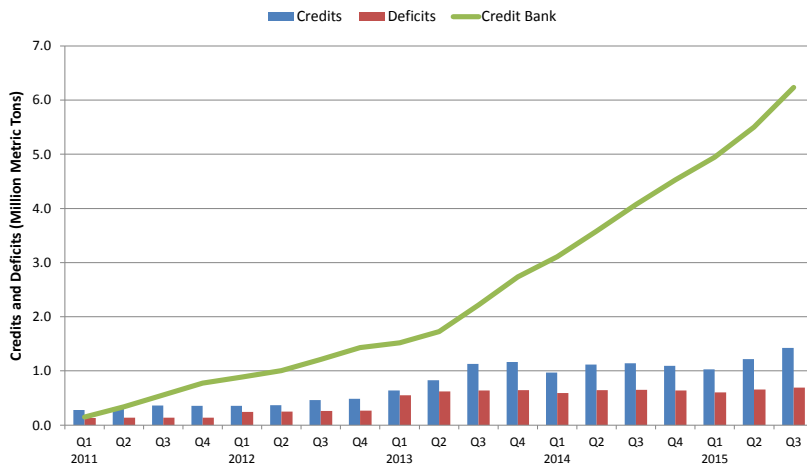
Select Compliance Year	CI Standard (gCO ₂ e/MJ)	Select Fuel	Fuel Energy Density (MJ/gal)
2016	96.50	Denatured Ethanol	81.51
Gasoline Gallon Equivalent (MJ/GGE)		Select Fuel/Vehicle Combination	Energy Economy Ratio (EER)
Gasoline Substitute		Light/Medium Duty Gas	1.0

Table I: Alternative Fuel Premiums at Sample LCFS Credit Prices (per GGE for fuels used as gasoline substitutes)

CI Score (gCO ₂ e/MJ)	Credit Price					
	\$60	\$80	\$100	\$120	\$150	\$200
0	\$0.67	\$0.89	\$1.12	\$1.34	\$1.68	\$2.24
10	\$0.60	\$0.80	\$1.00	\$1.20	\$1.50	\$2.00
20	\$0.53	\$0.71	\$0.89	\$1.06	\$1.33	\$1.77
30	\$0.46	\$0.62	\$0.77	\$0.92	\$1.16	\$1.54
40	\$0.39	\$0.52	\$0.65	\$0.79	\$0.98	\$1.31
50	\$0.32	\$0.43	\$0.54	\$0.65	\$0.81	\$1.08
60	\$0.25	\$0.34	\$0.42	\$0.51	\$0.63	\$0.85
70	\$0.18	\$0.25	\$0.31	\$0.37	\$0.46	\$0.61
80	\$0.11	\$0.15	\$0.19	\$0.23	\$0.29	\$0.38
90	\$0.05	\$0.06	\$0.08	\$0.09	\$0.11	\$0.15
99.78 (Max pass-through for CARBOB)	-\$0.02	-\$0.03	-\$0.04	-\$0.05	-\$0.06	-\$0.08

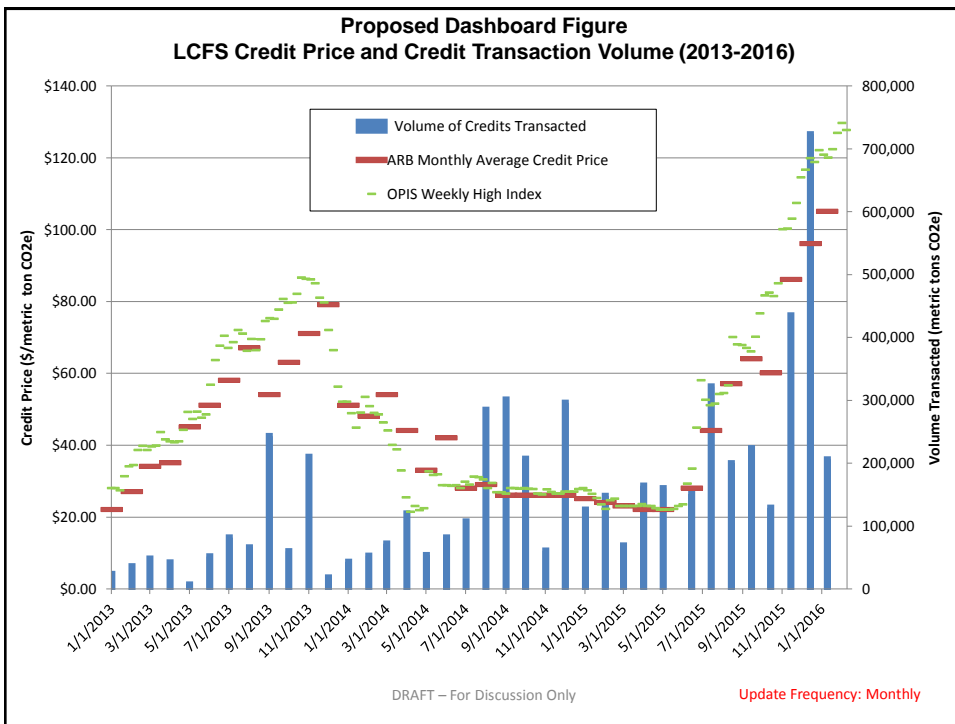
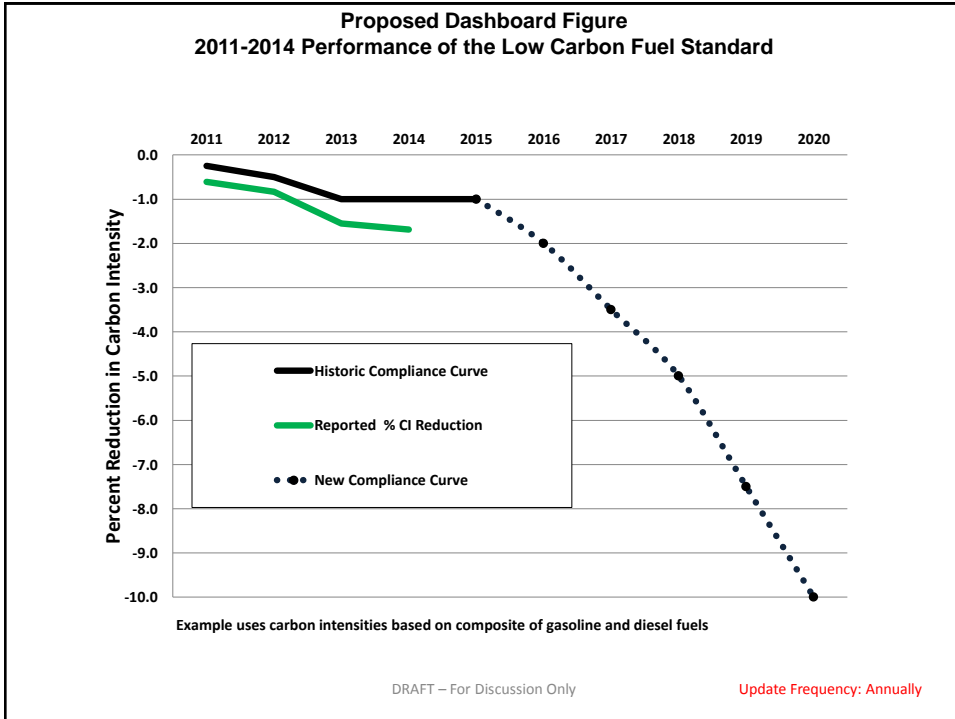
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Proposed Dashboard Figure Total Credits and Deficits for All Fuels Reported and Cumulative Credit Bank Q1 2011 – Q3 2015

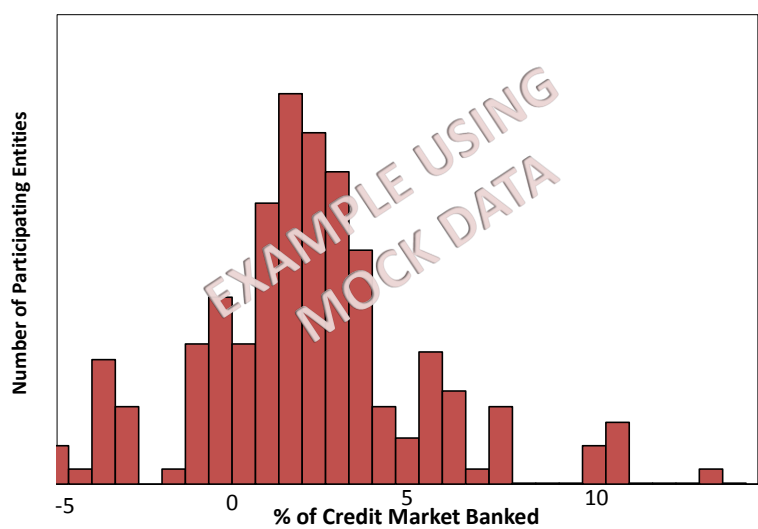


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Update Frequency: Quarterly



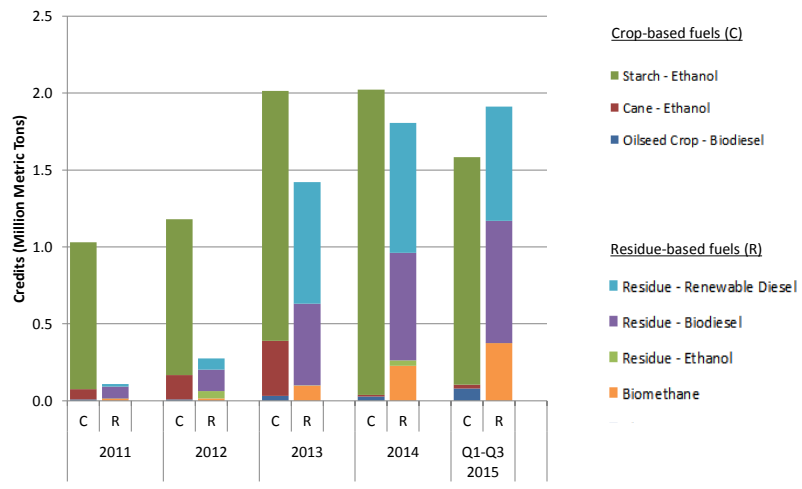
**Proposed Dashboard Figure
Net Position Histogram**



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Update Frequency: Quarterly

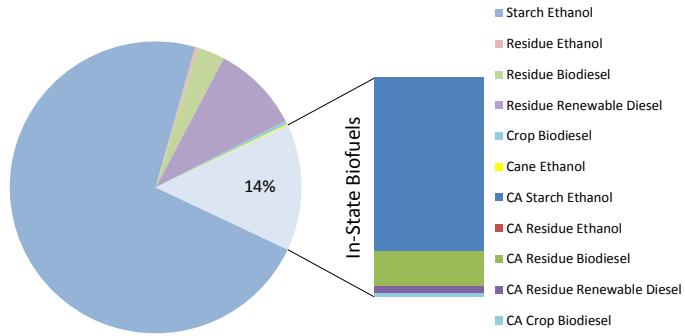
**Proposed Dashboard Figure
Total Biofuel Credits by Feedstock Type: Crop or Residue (Q1 2011 – Q3 2015)**



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Update Frequency: Annually

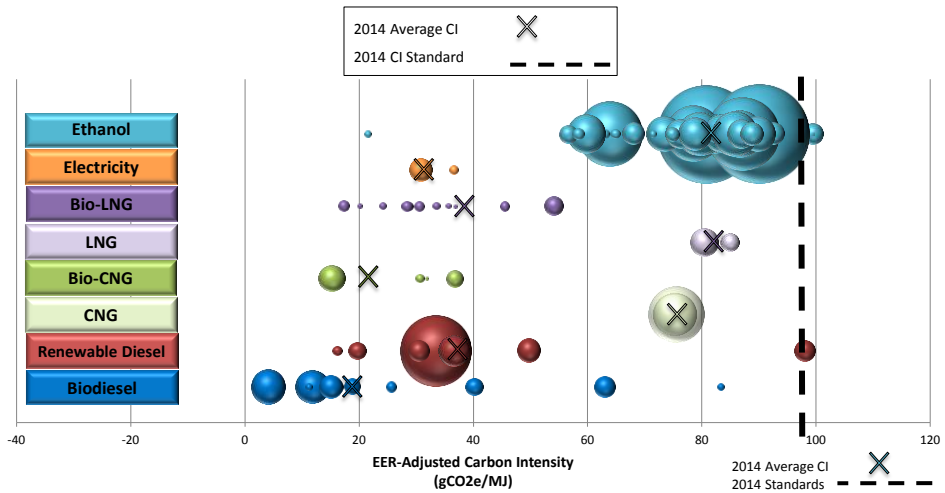
Proposed Dashboard Figure
2014 Share of Liquid Biofuels Produced In-State by Volume



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Proposed Dashboard Figure
2014 Volume-Weighted Average Carbon Intensity by Fuel Type

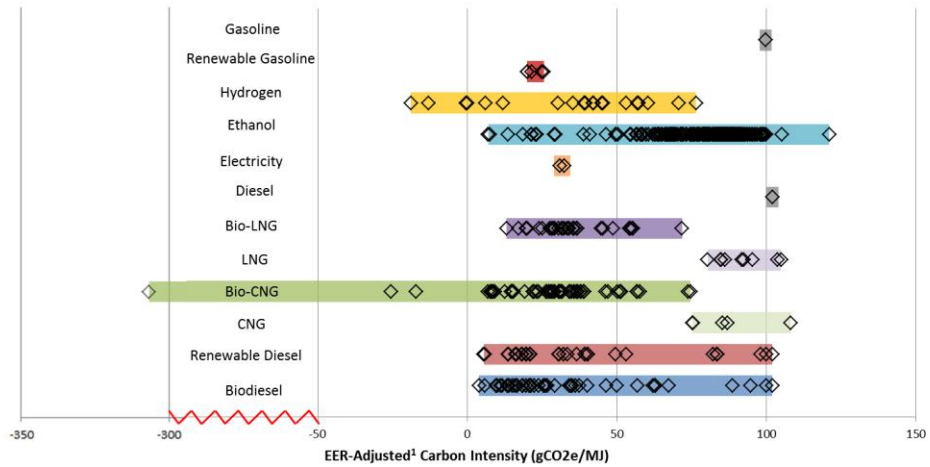


¹ CI values are adjusted using the vehicle-fuel Energy Economy Ratio (EER) to an equivalent MJ of conventional fuel basis $\left(\frac{CI_{\text{alternative fuel}}}{EER}\right)$.

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**Proposed Dashboard Figure
Carbon Intensity Values of All Certified Pathways (2011-2015).**

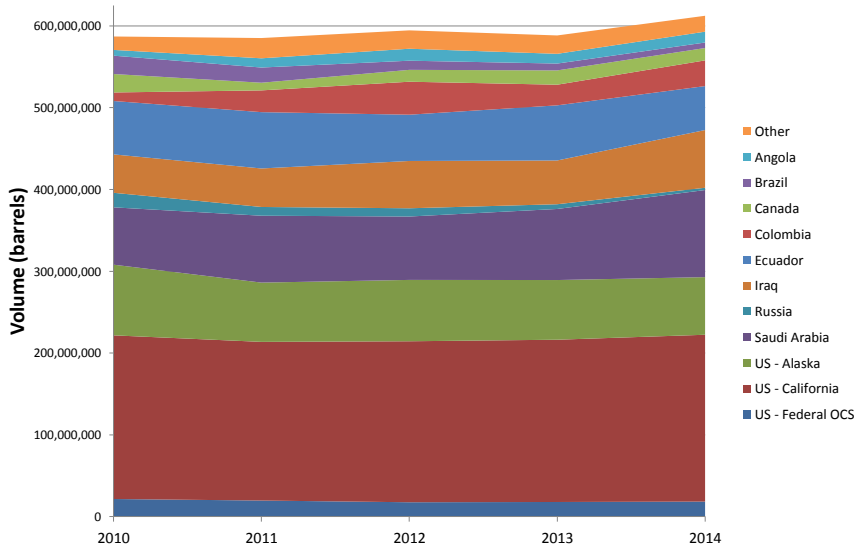


¹ The alternative fuel's CI value is divided by its Energy Economy Ratio (EER) in order to obtain the EER-adjusted CI value, representing the emissions which occur from the alternative fuel *per MJ of conventional fuel displaced*. EER values for all vehicle-fuel combinations are provided in Table 4 of the Final Regulation Order (2015).

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Update Frequency: Upon release of each group of certified CIs and then annually

**Proposed Dashboard Figure
Major Sources of Crude Supplied to California**



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Update Frequency: Annually

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