

California Air Resources Board

2015 Zero Emission Vehicle Credits

The data below provide greater transparency of compliance with the Zero Emission Vehicle (ZEV) regulation per California Code of Regulations title 17 section 1962.2(l) Public Disclosure.

Manufacturer Volume Status

The ZEV Regulation requires large volume and intermediate volume vehicle manufacturers to bring to and operate in California a certain percent of ZEVs (such as battery electric and fuel cell vehicles), clean plug-in hybrids, clean hybrids and clean gasoline vehicles with near-zero tail pipe emissions. The table below lists the 2015 vehicle manufacturers subject to the ZEV requirements.

Large Volume Status		
Fiat Chrysler	Ford	GM
Honda	Nissan	Toyota

Intermediate Volume Status	
BMW	Hyundai
KIA	Jaguar Land Rover
Mazda	Mercedes Benz
FUJI Heavy Industries / Subaru	Volkswagen

Manufacturer Sales in California

The table below displays the 2015 California vehicle production of large volume and intermediate volume manufacturers. A vehicle manufacturer's 2015 ZEV requirement is based on a percentage of all passenger cars and light-duty trucks (LDT) from 0 to 8,500 pounds (lbs.), delivered for sale in California.

Manufacturer	Passenger and LDT
BMW	100,168
Fiat Chrysler	176,212
Ford	173,976
Fuji Heavy Industries/Subaru	62,322
GM	219,062
Honda	274,145
Hyundai	79,869
Jaguar Land Rover	12,379
KIA	82,827
Mazda	46,877
Mercedes Benz	80,598
Nissan	188,286
Toyota	457,055
Volkswagen	105,189
Total	2,109,533

*Production does not include ZEVs.

Manufacturer Credit Balances

In complying with the ZEV Regulation, manufacturers operate vehicles in California which generate varying credits based on vehicle type. There are also other parties generating credits that do not have ZEV requirements. The table below lists the credit balances as of August 31, 2016 generated since the start of the ZEV Regulation in 1990. The credits are in units of ZEV credits.

Manufacturer	ZEV (excludes NEVs)	BEVx	NEV+	TZEV	AT PZEV	PZEV
BMW	7,092.49	13,668.55	0.00	0.00	0.00	0.00
BYD Motors Inc.	0.00	0.00	0.00	0.00	0.00	0.00
Fiat Chrysler	68,308.20	0.00	0.00	0.00	16,257.32	2,416.66
Ford	62,566.16	0.00	16,802.68	39,728.36	8,883.97	12,488.82
Fuji Heavy Industries/Subaru	31,000.00	0.00	1,177.11	0.00	795.50	14,300.20
GM	23,740.07	0.00	10,691.78	68,319.52	8,062.90	1,644.36
Honda	32,294.07	0.00	13,987.47	0.00	11,200.38	54,235.94
Hyundai	1,481.00	0.00	0.00	0.00	6,868.71	10,868.57
Jaguar Land Rover	1,358.49	0.00	0.00	0.00	0.00	511.72
KIA	2,295.09	0.00	0.00	0.00	5,627.70	10,514.40
Mazda	0.00	0.00	0.00	0.00	5,063.30	5,621.80
Mercedes Benz	24,447.37	0.00	1,232.63	274.35	99.38	10,332.00
Miles	0.00	0.00	5.14	0.00	0.00	0.00
Mitsubishi	67.50	0.00	0.00	0.00	0.00	1,468.43
Nissan	35,165.00	0.00	0.00	0.00	0.00	1,931.60
Polaris	0.00	0.00	0.00	0.00	0.00	0.00
Tesla	3,530.00	0.00	0.00	0.00	0.00	0.00
Toyota	42,709.02	0.00	0.00	10,462.31	205,211.21	0.00
Vantage	0.00	0.00	0.00	0.00	0.00	0.00
Volkswagen	8,999.86	0.00	0.00	0.00	756.54	5,122.69
Volvo	0.00	0.00	0.00	0.00	0.00	3,740.86
Zenith	62.50	0.00	0.00	0.00	0.00	0.00
Zipcar	0.00	0.00	0.00	0.00	612.51	488.09
Total	345,116.82	13,668.55	43,896.81	118,784.54	269,439.42	135,686.14

*The manufacturer credit balances table excludes all inactive manufacturers with zero credit balances.

Description of Credit Balances:

ZEV = Zero Emission Vehicle

BEVx = Type 1.5x/1lx (range extended)

NEV = Neighborhood Electric Vehicle

TZEV = Transitional Zero Emission Vehicle (plug-in hybrids)

AT PZEV = Advanced Technology Partial Zero Emission Vehicle (clean hybrids)

PZEV = Partial Zero Emission Vehicle (clean gasoline)

Manufacturer Transfers

Manufacturers may transfer credits with other manufacturers. Below are the ZEV credit transfers recorded between October 1, 2015 and August 31, 2016.

Transferor	Vehicle Type	Total Credits
Miles	NEV	76.60
Nissan	BEV	6,600.00
Polaris	NEV	33.00
Tesla	BEV	80,227.00
Toyota	AT PZEV	6,840.00
	Total	93,776.60

Transferee	Vehicle Type	Total Credits
Fiat Chrysler	BEV	37,450.00
Fiat Chrysler	NEV	33.00
Ford	BEV	35,000.00
Fuji Heavy Industries/Subaru	BEV	6,600.00
GM	NEV	76.60
Honda	BEV	7,777.00
Mazda	AT PZEV	6,840.00
	Total	93,776.60

Frequently Asked Questions

How many vehicles have been brought to and operated in California as a result of the ZEV Regulation?

These credit balances reflect ZEV regulation compliance through model year 2015, representing a total of over 4.5 million vehicles including approximately 575 fuel cell vehicles, 100,000 battery electrics, 29,700 NEVs, 70,000 clean plug-in hybrids, 700,000 clean hybrids, and over 3.5 million clean gasoline vehicles.

What do these credit balances mean? All vehicle manufacturers subject to the ZEV Regulation are in compliance through model year 2015. Positive credit balances represent a successful over compliance with the ZEV Regulation. Manufacturers can use these balances to provide flexibility in the timing and production of bringing new clean cars to the market to meet the ZEV requirements in coming years.

How far into the future do these credit balances cover the manufacturers' ZEV requirement?

Each manufacturer is unique in its strategy of compliance with the ZEV Regulation. It is not possible to predict how and when these credit balances will be spent over the coming years due to the complexity and flexibility of the regulation. There are also various mechanisms in the ZEV Regulation which limit how credits are spent. These balances will be taken into account in future amendments to the regulation.

Why are credit balances in units of grams/mile Non-Methane Organic Gases (g/mile NMOG)?

For 2015 reporting year and onward credits are expressed in ZEV credits. The purpose of this change is to simplify credit calculations. 2014 balances were divided by .035 to convert g/mile NMOG to ZEV credits.

Why is the timeframe for transfers different from previous years?

Previous reports published transfers recorded between October 1 and September 30. This report aligns with the ZEV Regulation which allows manufacturers to file a Supplemental ZEV data report by August 31. Transfers occurring between September 1, 2016, and September 30, 2016 will be published next year in the 2016 report. Starting with the 2016 report, transfers will be published aligned with the September 1 to August 31 reporting period.

More Information

- [ZEV Regulation](#)
- [ZEV Tutorial](#)
- [ZEV Credit Archive](#)

Contact Us

For more information please contact the Office of Communications at (916) 322-2990 or (800) 242-4450.