

2017 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 2017 vehicle manufacturers subject to the ZEV requirements.

2017 Manufacturer Volume Status		
Large	Intermediate	
Fiat Chrysler	BMW	Subaru Corporation
Ford	Daimler AG	Volkswagen
GM	Hyundai	
Honda	Jaguar Land Rover	
Nissan	KIA	
Toyota	Mazda	

Manufacturer Requirement

A vehicle manufacturer's 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. The table below is the 2017 California vehicle production of large volume and intermediate volume manufacturers.

Large and Intermediate Volume Manufacturer 2017 Vehicle Production Delivered for Sale in CA*	
Manufacturer	Passenger and LDT
BMW	77,035
Fiat Chrysler	156,110
Ford	210,920
GM	230,182
Honda	305,031
Hyundai	115,104
Jaguar Land Rover	25,457
KIA	72,052
Mazda	44,340
Mercedes	76,003
Nissan	163,851
Subaru Corporation	74,999
Toyota	428,700
Volkswagen	112,809
Total	2,092,593

* Production Delivered does not include ZEVs.

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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, 2018 generated since the start of the ZEV Regulation in 1990. The credits are in units of ZEV credits.

Per section 1962.1(g)(2)(F) "Converting PZEV and AT PZEV Credits after Model Year 2017. After model year 2017 compliance, a manufacturer's PZEV and AT PZEV credit accounts will be converted to be used for compliance with requirements specified in subdivision 1962.2(b). For LVMs, PZEV accounts will be discounted 93.25%, and AT PZEV accounts will be discounted 75%. For IVMs, PZEV accounts and AT PZEV accounts will be discounted 75%. This will be a one time calculation after model year 2017 compliance is complete." This conversion of PZEV and AT PZEV credits is shown in the "DISCOUNT AT PZEV and PZEV" column below.

Manufacturer	ZEV	1.5x/IIx	NEV+	TZEV	AT PZEV	PZEV	DISCOUNT AT PZEV and PZEV
BMW	13,369.00	29,444.64	0.00	0.00	0.00	0.00	0.00
BYD Motors Inc.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiat Chrysler	108,400.35	0.00	0.00	0.00	10,307.59	0.00	2,576.90
Ford	68,894.09	0.00	9,248.97	76,779.49	13,261.84	2,022.32	3,451.97
GM	99,509.97	0.00	6,112.36	120,119.10	1,957.01	305.48	509.87
Honda	31,444.92	0.00	8,274.35	286.89	7,852.60	83,487.28	7,598.54
Hyundai	4,156.00	0.00	0.00	4,252.18	6,868.71	4,982.85	2,962.89
Jaguar Land Rover	3,921.49	0.00	0.00	0.00	0.00	4,210.88	1,052.72
KIA	10,698.99	0.00	0.00	1,859.76	6,804.45	9,892.56	4,174.25
Mazda	2,165.00	0.00	0.00	0.00	6,840.00	11,981.54	4,705.39
Mercedes	28,860.24	0.00	0.00	3,761.57	0.00	0.00	0.00
Miles	0.00	0.00	5.14	0.00	0.00	0.00	0.00
Mitsubishi	151.00	0.00	0.00	0.00	0.00	1,468.43	367.11
Nissan	56,687.54	0.00	0.00	0.00	0.00	0.00	0.00
Polaris	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subaru Corporation	53,567.00	0.00	1,177.11	0.00	977.30	29,089.48	7,516.70
Tesla	74,712.17	0.00	0.00	0.00	0.00	0.00	0.00
Toyota	222,553.12	0.00	0.00	32,559.29	195,551.11	0.00	48,887.78
Vantage	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volkswagen	36,617.60	0.00	0.00	8,695.07	855.54	378.17	308.43
Volvo	0.00	0.00	0.00	2,397.34	0.00	4,739.66	1,184.92
Zenith	62.50	0.00	0.00	0.00	0.00	0.00	0.00
Zipcar	0.00	0.00	0.00	0.00	612.51	488.09	275.15
Total	815,770.97	29,444.64	24,817.93	250,710.69	251,888.66	153,046.74	85,572.60

ZEV = Zero Emission Vehicle (fuel cell and battery electric)

1.5x/IIx = Type 1.5x/IIx (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)

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Manufacturer Transfers

Manufacturers may transfer credits with other manufacturers. Below are the ZEV credit transfers recorded between September 1, 2017 and August 31, 2018.

CA ZEV credit transfers recorded between September 1, 2017 and August 31, 2018		
Transferor	Vehicle Type	Total Credits
Fiat Chrysler	BEV	469.00
Tesla	BEV	88,214.00
	Total	88,683.00

Transferee	Vehicle Type	Total Credits
Honda	BEV	469.00
Toyota	BEV	88,214.00
	Total	88,683.00

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 2017, representing a total of 5.7 million vehicles including 5,000 fuel cell vehicles, 200,000 battery electric and range extended vehicles, 29,700 neighborhood electric vehicles, 150,000 clean plug-in hybrids, 800,000 clean hybrids, and 4.5 million clean gasoline vehicles.

Besides earning credits or transferring credits, what else can contribute to a manufacturers' credit balance?

In the ZEV regulation fuel cell vehicles and battery electric vehicles earned in one state are allowed to be counted as earned in all ZEV states, this is called the "travel" provision. When credits earned in the other ZEV states are traveled to California, they are traveled on a one to one basis. Travel of BEVs was completed prior to the close of the model year 2017 per the ZEV regulation. The frequency of manufacturers completing travel has varied over the years with some manufacturers traveling BEV credits on an annual basis, and some manufacturers traveling BEV credits accumulated over several years in a single year.

What do these credit balances mean?

All vehicle manufacturers subject to the ZEV Regulation are in compliance through model year 2017. 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.

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Why are the credit balances in ZEV credits instead of grams per mile Non-Methane Organic Gases (g/mi 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 credits to ZEV credits.

How do you calculate a manufacturer's requirement?

For understanding the calculations involved in the ZEV Regulation, please see the ZEV Tutorial link below.

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.