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2017 Zero Emission Vehicle Credits

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To provide greater transparency to interested stakeholders, production data for model year 2017 and Zero Emission Vehicle (ZEV) credit balances are now publicly available as per California Code of Regulations title 17 section 1962.1(I), which New Jersey has adopted by reference.

Manufacturer Volume Status

The ZEV regulations require large volume and intermediate volume manufacturers to deliver for sale in New Jersey a certain percentage of ZEVs (such as battery electric or fuel cell vehicles), clean plug-in hybrids, clean hybrids, and clean gasoline vehicles with near-zero tailpipe emissions. The table below lists the 2017 Vehicle Manufacturers subject to the ZEV requirements.

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

Manufacturer Requirement

A vehicle manufacturer's ZEV requirement is based on a percentage of all passenger cars and light-duty trucks (LDTs) with a Gross Vehicle Weight Rating (GVWR) from 0 to 8500 pounds, delivered for sale in New Jersey. The table below is the volume of 2017 vehicles delivered for sale in New Jersey by Large Volume and Intermediate Volume Manufacturers.

Large and Intermediate Volume Manufacturer 2017 Vehicles Delivered for Sale in New Jersey*	
Manufacturer	Passenger Cars and LDTs
BMW	25,466
Daimler AG	21,799
Fiat Chrysler	57,969
Ford	74,014
GM	73,217
Honda	88,836
Hyundai	40,309
Jaguar Land Rover	8,106
Kia	20,947
Mazda	15,190
Nissan	66,727
Subaru Corporation	24,618
Toyota	89,454
Volkswagen	38,094
TOTAL	644,746

*Production volume calculation includes ZEV sales model year 2018 and beyond

Manufacturer Credit Balances

In complying with the ZEV regulations, manufacturers deliver vehicles to NJ 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 the end of August 31, 2018, generated since the start of the ZEV regulations 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 Large Volume Manufacturers (LVMs), PZEV accounts will be discounted 93.25%, and AT PZEV accounts will be discounted 75%. For Intermediate Volume Manufacturers (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	5,586.01	16,773.04	0.00	652.39	0.00	0.00	0.00
BYD Motors Inc.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daimler AG	10,470.60	0.00	622.74	5,482.37	0.00	0.00	0.00
Fiat Chrysler	52,107.79	0.00	0.00	0.00	0.00	0.00	81.00
Ford	30,276.03	0.00	3,726.26	4,172.51	5,666.56	0.00	1,416.64
GM	39,397.36	0.00	3,735.45	2,629.78	3,063.43	72.42	770.75
Honda	14,807.61	0.00	3,515.13	259.01	0.00	17,353.50	1,171.36
Hyundai	2,499.89	0.00	0.00	101.35	112.05	1,455.55	391.90
Jaguar Land Rover	1,768.54	0.00	0.00	0.00	0.00	1,584.15	396.04
KIA	4,126.52	0.00	0.00	216.63	643.44	3,980.08	1,155.88
Mazda	532.74	0.00	0.00	0.00	1,944.00	2,203.10	1,036.78
MILES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mitsubishi	24.20	0.00	0.00	0.00	0.00	3,330.46	832.62
Nissan	27,590.52	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	26,153.28	0.00	0.00	0.00	295.75	15,917.85	4,053.40
Tesla	3,561.00	0.00	0.00	0.00	0.00	0.00	0.00
Toyota	44,038.25	0.00	4.88	13,315.52	35,172.99	0.00	8,793.25
VANTAGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volkswagen	14,287.91	0.00	0.00	816.97	0.00	0.00	0.00
Volvo	0.00	0.00	0.00	431.97	0.00	2,440.89	2,440.89
ZENITH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zipcar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	277,228.25	16,773.04	11,604.46	28,078.50	46,898.22	48,338.00	22,540.51

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)

Manufacturer Transfers

Manufacturers may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred from October 1, 2017 through August 31, 2018.

New Jersey ZEV transfers October 1, 2017 through August 31, 2018			
Transferor	Transferee	Type of Vehicle	Number of Credits
Fiat Chrysler	Honda	BEV	144.00
Honda	Fiat Chrysler	PZEV	1,200.00
Tesla	Toyota	BEV	8,512.04
		Total	9,856.04

Frequently Asked Questions

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 requirements. 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.

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

In the ZEV regulations, 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 ZEV regulations. 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

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

Each manufacturer is unique in its strategy of compliance with the ZEV regulations. 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 regulations. There are also various mechanisms in the ZEV regulations which limit how credits are spent. These balances will be considered in future amendments to the regulations.

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 requirements?

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

More Information

[ZEV Regulation](#)

[ZEV Tutorial](#)

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Contact Us

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