



State of New Jersey

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2016 Zero Emission Vehicle Credits

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To provide greater transparency to interested stakeholders, production data in model year 2016 and credit balances are now publicly available as per California section 1962.1(I), which NJ has adopted by reference.

Manufacturer Volume Status

The ZEV regulations require large volume and intermediate volume manufacturers to bring to and operate in New Jersey 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 2016 Vehicle Manufacturers subject to the ZEV Requirements.

2016 Manufacturer Volume Status	
Large Volume	Intermediate Volume
Fiat Chrysler	BMW
Ford	Hyundai
GM	Jaguar Land Rover
Honda	Kia
Nissan	Mazda
Toyota	Mercedes
	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 GVWR from 0 to 8500 pounds delivered for sale in New Jersey. The following table is the 2016 New Jersey vehicle production for Large Volume and Intermediate Volume Manufacturers.

Large and Intermediate Volume Manufacturer 2016 Vehicles Delivered for Sale in New Jersey	
Manufacturer	Passenger Cars and LDTs
BMW	29,416
Fiat Chrysler	57,124
Ford	66,790
Fuji Heavy Industries/Subaru	21,427
General Motors	73,348
Honda	98,880
Hyundai	27,352
Jaguar Land Rover	8,079
Kia	21,779
Mazda	23,265
Mercedes Benz	21,065
Nissan	52,313
Toyota	77,523
Volkswagen	33,343
TOTAL	611,704

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, 2017, generated since the start of the ZEV Regulations in 1990. The credits are in units of ZEV credits.

Manufacturer	FCV	BEV	I.5x/IIx	NEV+	TZEV	AT PZEV	PZEV
BMW	0.00	2,122.71	3,429.89	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
Daimler AG	1,073.72	13,585.62	0.00	3,429.43	0.00	0.00	0.00
Fiat Chrysler	0.00	49,556.84	0.00	0.00	0.00	1,345.23	0.00
Ford	0.00	23,002.11	0.00	5,855.77	2,775.94	4,898.06	1,658.79
GM	0.00	11,316.86	0.00	4,561.72	2,292.12	4,359.54	3,562.96
Honda	(0.00)	12,960.01	0.00	4,753.59	1,338.77	861.29	15,653.32
Hyundai	1,497.77	0.00	0.00	0.00	55.64	809.46	3,509.40
Jaguar Land Rover	0.00	1,768.54	0.00	0.00	0.00	0.00	898.51
KIA	774.92	2,297.29	0.00	0.00	0.00	643.44	4,002.96
Mazda	0.00	0.00	0.00	0.00	0.00	1,479.83	968.68
MILES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mitsubishi	0.00	21.70	0.00	0.00	0.00	0.00	3,330.46

Manufacturer	FCV	BEV	I.5x/IIx	NEV+	TZEV	AT PZEV	PZEV
Nissan	167.80	10,291.86	0.00	0.00	0.00	0.00	1,183.65
Polaris	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subaru Corporation	0.00	3,496.00	0.00	0.00	0.00	295.75	13,132.41
Tesla	0.00	1,660.00	0.00	0.00	0.00	0.00	0.00
Toyota	0.00	8,012.26	0.00	1,023.39	9,640.67	40,478.51	0.00
VANTAGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volkswagen	1,363.43	9,270.45	0.00	0.00	195.57	147.86	514.36
Volvo	0.00	0.00	0.00	0.00	196.35	0.00	2,418.69
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

AT PZEV = Advanced Technology Partial Zero Emission Vehicle

BEV = Battery Electric Vehicle

FCV = Fuel Cell Vehicle

I.5x/IIx = Extended Range Battery Vehicle

NEV+ = Neighborhood Electric Vehicle

PZEV = Partial Zero Emission Vehicle

TZEV = Transitional Zero Emission Vehicle

ZEV = Zero Emission Vehicle

Manufacturer Transfers

Manufacturers may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred from September 1, 2016 through August 31, 2017.

New Jersey ZEV transfers out September 1, 2016 through August 31, 2017		
Transferor	Type of Vehicle	Number of Credits
Nissan	BEV	2,048.00
Honda	PZEV	700.00
Tesla	BEV	8,036.00
	Total	10,784.00

New Jersey ZEV transfers in September 1, 2016 through August 31, 2017		
Transferee	Type of Vehicle	Number of Credits
Ford	BEV	2,048.00
GM	PZEV	700.00
Subaru Corporation	BEV	3,496.00
Toyota	BEV	4,540.00
	Total	10,784.00

Frequently Asked Questions

What do these credit balances mean?

All vehicle manufacturers subject to the ZEV Regulations are in compliance through model year 2016. Positive credit balances represent a successful over-compliance with the ZEV Regulations. 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 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 taken into account 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 the 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 Regulations, please see the ZEV Tutorial link [here](#).

More Information

- [ZEV Regulation](#)
- [ZEV Tutorial](#)
- www.stopthesoot.org

Contact Us

For more information please contact Ann Arnold at the NJDEP Bureau of Mobile Sources: Ann.Arnold@dep.nj.us or (609) 633-0639.