



State of New Jersey

PHILIP D. MURPHY
Governor

**DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR, ENERGY AND MATERIALS SUSTAINABILITY**

SHAWN M. LATOURETTE
Commissioner

SHEILA Y. OLIVER
Lt. Governor

BUREAU OF MOBILE SOURCES
Post Office Box 420, Mail Code 401-02E
Trenton, New Jersey 08625-0420
Tel: (609) 292-7953, Fax: (609) 633-8236
www.stopthesoot.org
www.drivegreen.nj.gov

2021 Zero Emission Vehicle Credits

This page last reviewed January 10, 2023

To provide greater transparency to interested stakeholders, production data for model year 2021 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 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 2021 Vehicle Manufacturers subject to the ZEV Requirements.

| 2021 Manufacturer Volume Status | |
|---------------------------------|---------------------|
| Large Volume | Intermediate Volume |
| BMW | Jaguar Land Rover |
| Fiat Chrysler | Mazda |
| Ford | Mitsubishi |
| GM | Subaru Corporation |
| Honda | Tesla |
| Hyundai | Volvo |
| KIA | |
| Mercedes-Benz AG | |
| Nissan | |
| Toyota | |
| 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 2021 vehicles delivered for sale in New Jersey by Large Volume and Intermediate Volume Manufacturers.

| Large and Intermediate Volume Manufacturer 2021 Vehicles Delivered for Sale in New Jersey* | |
|---|-------------------------|
| Manufacturer | Passenger Cars and LDTs |
| BMW | 34,946 |
| Fiat Chrysler | 56,284 |
| Ford | 37,567 |
| GM | 53,640 |
| Honda | 65,310 |
| Hyundai | 27,060 |
| Jaguar Land Rover | 5,647 |
| KIA | 22,246 |
| Mazda | 22,857 |
| Mercedes-Benz AG | 18,649 |
| Mitsubishi | 1,573 |
| Nissan | 34,479 |
| Subaru Corporation | 32,125 |
| Tesla | 9,597 |
| Toyota | 78,411 |
| Volkswagen | 35,436 |
| Volvo | 10,477 |
| TOTAL | 546,304 |

*Production volume calculation includes ZEV sales model year 2021 and beyond

Manufacturer Credit Balances

In complying with the ZEV regulation, 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, 2022, 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 | FCV | BEV | BEV _x | NEV+ | TZEV | DISCOUNT AT PZEV and PZEV |
|--------------------|-----------------|-------------------|------------------|-----------------|------------------|---------------------------------|
| BMW | 0.00 | 2,955.48 | 12,047.33 | 0.00 | 375.08 | 0.00 |
| BYD Motors Inc. | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fiat Chrysler | 0.00 | 26,657.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ford | 0.00 | 25,963.53 | 0.00 | 1,676.49 | 0.00 | 1,416.64 |
| GM | 0.00 | 28,786.14 | 0.00 | 2,249.42 | 108.24 | 0.00 |
| Honda | 5,339.41 | 14,171.34 | 0.00 | 1,767.05 | 0.01 | 0.00 |
| Hyundai | 0.00 | 1,611.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| Jaguar Land Rover | 0.00 | 774.15 | 0.00 | 0.00 | 6.38 | 0.00 |
| KIA | 0.00 | 337.67 | 0.00 | 0.00 | 0.00 | 595.81 |
| Lightning Systems | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LUCID | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mazda | 0.00 | 2,139.37 | 0.00 | 0.00 | 0.00 | (0.01) |
| Mercedes-Benz AG | 0.00 | 7,038.02 | 0.00 | 483.05 | 3,000.40 | 0.00 |
| MILES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mitsubishi | 0.00 | 1,104.20 | 0.00 | 0.00 | 119.40 | 832.62 |
| Nissan | 167.80 | 15,070.06 | 0.00 | 0.00 | 0.00 | 0.00 |
| Polaris | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RIVIAN | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subaru Corporation | 0.00 | 22,309.96 | 0.00 | 0.00 | 0.00 | 127.62 |
| Tesla | 0.00 | 94,377.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| Toyota | 0.00 | 25,587.35 | 0.00 | 0.00 | 7,240.26 | 6,150.44 |
| VANTAGE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Volkswagen | 0.00 | 11,852.51 | 0.00 | 0.00 | 149.31 | 0.00 |
| Volvo | 0.00 | 891.34 | 0.00 | 0.00 | 0.00 | 41.04 |
| ZENITH | 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 |
| Totals | 5,507.21 | 281,627.47 | 12,047.33 | 6,176.01 | 10,999.08 | 9,164.16 |

FCV = Fuel Cell Vehicle

BEV = Battery Electric Vehicle

BEVx = Extended Range Battery Vehicle

NEV+ = Neighborhood Electric Vehicles

TZEV = Transitional Zero Emission Vehicle

Discount AT PZEV and PZEV = Conversion of Advanced Technology Partial Zero Emission Vehicle (clean hybrids) and Partial Zero Emission Vehicle (clean gasoline) per 1962.1(g)(2)(f)

Manufacturer Transfers

Manufacturers may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred from October 1, 2021, through August 31, 2022.

| New Jersey ZEV transfers October 1, 2021 through August 31, 2022 | | | |
|---|------------|-----------------|-------------------|
| Transferor | Transferee | Type of Vehicle | Number of Credits |
| Tesla | Mazda | BEV | 3,586.00 |
| | | Total | 3,586.00 |

Frequently Asked Questions

What do these credit balances mean?

All vehicle manufacturers subject to the ZEV Regulation are in compliance through model year 2021. 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.

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 2021 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

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 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](#)

www.stopthesoot.org

Contact Us

For more information, please contact the NJDEP Bureau of Mobile Sources:
NJLEV@dep.nj.gov or (609) 292-7953.