



Manufacturer Volume Status

The Zero Emission Vehicle Regulation requires large-volume and intermediate-volume vehicle manufacturers to bring to and operate in Rhode Island a certain percent of zero emission vehicles (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 2014 vehicle manufacturers subject to the ZEV requirements.

| 2014 Manufacturer Volume Status | |
|---------------------------------|---------------------|
| Large Volume | Intermediate Volume |
| Fiat Chrysler | BMW |
| Ford | Hyundai |
| GM | Kia |
| Honda | Jaguar Land Rover |
| Nissan | Mazda |
| Toyota | Mercedes Benz |
| | Subaru |
| | Volkswagen |

Manufacturer Requirement

A vehicle manufacturer's ZEV requirement is based on a percentage of all passenger cars and light-duty trucks from 0 to 8,500 pounds, delivered for sale in Rhode Island. The table below is the 2014 Rhode Island vehicle production of large-volume and intermediate-volume manufacturers.

| Large- and Intermediate- Volume Manufacturer – 2014 Vehicle Production Delivered for Sale in RI | |
|---|---|
| Manufacturer | Passenger and LDT *LDT = light duty truck –8500 lbs. |
| BMW | 1,884 |
| Fiat Chrysler | 6,393 |
| Ford | 5,624 |
| GM | 7,701 |
| Honda | 4,614 |
| Hyundai | 2,495 |
| Jaguar Land Rover | 339 |
| Kia | 1,268 |
| Mazda | 1,113 |
| Mercedes Benz | 1,639 |
| Nissan | 2,769 |
| Subaru | 2,138 |
| Toyota | 6,809 |
| Volkswagen | 2,437 |
| TOTAL | 47,223 |

Rhode Island Zero Emissions Vehicle Credit Balances

In complying with the ZEV regulation, manufacturers deliver vehicles in RI 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 end of the 2014 model year. The credits are in units of grams per mile Non-Methane Organic Gases (g/mi NMOG).

| Manufacturer | Units | ZEVs (Excluding NEVs) | 1.5x/11x | NEV+ | TZEV | AT PZEV | PZEV |
|---------------------------------|----------------|-----------------------------|----------|-----------|------------|----------|-----------|
| BMW | g/mi NMOG | 1,917.23 | 12.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 54,778.00 | 342.86 | 0.00 | 0.00 | 0.00 | 0.00 |
| BYD Motors Inc. | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daimler AG | g/mi NMOG | 2,287.43 | 0.00 | 355.51 | 0.00 | 0.54 | 81.37 |
| | ZEV credits | 65,355.14 | 0.00 | 10,157.43 | 0.00 | 15.43 | 2,324.86 |
| Fiat Chrysler | g/mi NMOG | 738.29 | 0.00 | 0.00 | 100.63 | 0.00 | 0.00 |
| | ZEV credits | 21,094.00 | 0.00 | 0.00 | 2,875.14 | 0.00 | 0.00 |
| Ford | g/mi NMOG | 653.43 | 0.00 | 595.31 | 366.79 | 0.00 | 625.77 |
| | ZEV credits | 18,699.43 | 0.00 | 17,008.86 | 10,479.71 | 0.00 | 17,879.14 |
| Fuji Heavy Industries/Subaru | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 15.95 | 656.54 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 455.71 | 18,758.29 |
| GM | g/mi NMOG | 669.85 | 0.00 | 0.00 | 4,728.67 | 0.00 | 277.66 |
| | ZEV credits | 19,138.57 | 0.00 | 0.00 | 135,104.86 | 0.00 | 7,933.14 |
| Honda | g/mi NMOG | 2,475.09 | 0.00 | 306.60 | 3,619.86 | 55.22 | 602.60 |
| | ZEV credits | 70,716.86 | 0.00 | 8,760.00 | 0.00 | 1,577.71 | 17,217.14 |
| Hyundai | g/mi NMOG | 736.00 | 0.00 | 0.00 | 0.00 | 57.20 | 431.17 |
| | ZEV credits | 21,028.57 | 0.00 | 0.00 | 0.00 | 1,634.29 | 12,319.14 |
| Jaguar Land Rover | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| KIA | g/mi NMOG | 771.71 | 0.00 | 0.00 | 0.00 | 24.21 | 210.49 |

| | | | | | | | |
|------------|-------------|-----------|------|----------|-----------|-----------|-----------|
| | ZEV credits | 22,048.86 | 0.00 | 0.00 | 0.00 | 691.71 | 6,014.00 |
| Mazda | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 46.66 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,333.14 |
| MILES | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mitsubishi | g/mi NMOG | 1.03 | 0.00 | 0.00 | 0.00 | 0.00 | 17.77 |
| | ZEV credits | 29.43 | 0.00 | 0.00 | 0.00 | 0.00 | 507.71 |
| Nissan | g/mi NMOG | 1,990.52 | 0.00 | 0.00 | 475.46 | 0.00 | 0.00 |
| | ZEV credits | 56,872.00 | 0.00 | 0.00 | 13,584.57 | 0.00 | 0.00 |
| Polaris | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tesla | g/mi NMOG | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 114.29 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Toyota | g/mi NMOG | 978.72 | 0.00 | 168.37 | 1,142.16 | 2,932.46 | 0.00 |
| | ZEV credits | 27,963.43 | 0.00 | 4,810.57 | 32,633.14 | 83,784.57 | 0.00 |
| VANTAGE | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Volkswagen | g/mi NMOG | 1,404.00 | 0.00 | 0.00 | 0.00 | 11.56 | 363.54 |
| | ZEV credits | 40,114.29 | 0.00 | 0.00 | 0.00 | 330.29 | 10,386.86 |
| Volvo | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 242.34 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6,924.00 |
| ZENITH | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Zipcar | g/mi NMOG | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | ZEV credits | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Manufacturer Transfers

Manufacturers may transfer credits between manufacturers and third parties. Below are ZEV credits transferred between May 31, 2014 and April 30, 2015.

| Transferor | Type of Vehicle | Number of Credits |
|--------------|-----------------|-------------------|
| Ford | PZEV | 1.26 |
| Nissan | BEV | 55.00 |
| Tesla | BEV | 32.00 |
| TOTAL | | 88.26 |

| Transferee | Type of Vehicle | Number of Credits |
|-------------------|-----------------|-------------------|
| Ford | BEV | 55.00 |
| Jaguar Land Rover | PZEV | 1.26 |
| Toyota | BEV | 32.00 |
| TOTAL | | 88.26 |

Frequently Asked Questions

How far into the future do these credit balances cover the manufacturers' ZEV requirement? Each manufacturer is unique in their 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 various mechanisms in the ZEV regulation which limit how credits are spent.

How do you calculate a manufacturer's requirement? For understanding the calculations involved in the ZEV Regulation, please see [ZEV Tutorial](#).

Why are credit balances in units of grams/mile Non-Methane Organic Gases (g/mile NMOG)? For reporting year 2014 only, the balances are displayed in both units of grams/mile Non-Methane Organic Gases (g/mile NMOG) and ZEV credits to provide a transition to units of ZEV credits. Through reporting year 2014 credits earned have been multiplied by the g/mile NMOG fleet average requirement for the appropriate model year. The g/mi NMOG is used only as index (which decreased over time)—it is the “currency” that credits are stored in and does not represent actual values of g/mi NMOG. The intent of this multiplier was to reward early production of vehicles. For 2015 reporting year onward credits will be expressed in ZEV credits. The purpose of this change is to simplify credit calculations. Current balances are divided by .035 to convert g/mile NMOG credits to ZEV credits.