



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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2010 Zero Emission Vehicle Credits

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To provide greater transparency to interested stakeholders, production data beginning in model year 2009 and credit balances in 2010 are now publicly available as per section 1962.1(I), which NJ adopted by reference.

Manufacturer Volume Status

The ZEV regulation requires 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 2010 Vehicle Manufacturers subject to the ZEV Requirements.

2009 Manufacturer Volume Status	
Large Volume	Intermediate Volume
Chrysler Group	BMW
Ford	Hyundai
GM	Kia
Honda	Land Rover
Nissan	Mazda
Toyota	Mercedes Benz
	Subaru
	Volkswagen
	Volvo

Manufacturer Requirement

A vehicle manufacturer's ZEV requirement is based on a percentage of all passenger cars and light-duty trucks from 0 to 8500 lbs, brought to and operated in New Jersey.

The table below is the 2010 New Jersey vehicle production of Large Volume and Intermediate Volume Manufacturers.

Large and Intermediate Volume Manufacturer 2010 Vehicles Delivered for Sale in New Jersey		
Manufacturer	Passenger Cars and LDT1	LDT2
BMW	12,418	2,827
Chrysler Group	12,833	20,785
Ford	40,280	19,295
FUJI Heavy Industries/Subaru	8,575	2,715
General Motors	26,528	23,709
Honda	68,113	17,897
Hyundai	22,071	3,808
KIA	6,131	1,032
Land Rover	0	2,719
Mazda	13,799	5,753
Mercedes Benz	15,009	8,492
Mitsubishi	2,226	287
Nissan	37,879	11,544
Toyota	57,680	42,112
Volkswagen	18,300	2,530
Volvo	2,293	3,295
SUBTOTALS	344,032	168,800
TOTAL		512,832

LDT1 = light duty truck 0-3750 lbs

LDT2 = light duty truck 3751-8500 lbs

Manufacturer Credit Balances

In complying with the ZEV regulation, manufacturers deliver vehicles in 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

end of 2010 model year. The credits are in units of grams per mile Non-Methane Organic Gases (g/mi NMOG).

Manufacturer	ZEVs (excluding NEVs)	NEVs	Enhanced AT PZEV	AT PZEVs	PZEVs
BMW	87.853	0.000	0.000	0.000	151.082
Chrysler Group	49.030	317.243	0.000	0.000	0.000
Ford	145.442	477.204	0.000	338.545	503.566
FUJI Heavy Industries/Subaru	0.000	0.000	0.000	0.000	171.588
General Motors	318.923	431.810	0.000	233.508	335.966
Honda	274.010	395.896	0.000	426.330	171.102
Hyundai	25.760	0.000	0.000	0.000	46.275
KIA	23.320	0.000	0.000	0.000	26.176
Land Rover	0.000	0.000	0.000	0.000	0.000
Mazda	0.000	0.000	0.000	0.000	117.244
Mercedes Benz	28.520	150.811	0.000	1.987	5.792
Mitsubishi	1.471	0.000	0.000	0.000	100.827
Nissan	106.338	0.000	0.000	0.000	750.849
Tesla	0.000	0.000	0.000	0.000	0.000
Toyota	413.773	0.000	0.000	1,946.505	578.514
Volkswagen	47.720	0.000	0.000	0.000	61.147
Volvo	0.000	0.000	0.000	0.000	99.672
TOTALS	1,522.16	1772.964	0.000	2,946.88	3,020.13

ZEV = Zero Emission Vehicle

NEVs = Neighborhood Electric Vehicle

NMOG = Non-Methane Organic Gases

AT PZEV = Advanced Technology Partial Zero Emission Vehicle

PZEV = Partial Zero Emission Vehicle

Manufacturer Transfers

Manufacturer may transfer credits between manufacturers and third parties. Below are the ZEV credits transferred between October 1, 2010 and December 19, 2011.

New Jersey ZEV transfers out between October 1, 2010 and September 30, 2011 (g/mi NMOG)		
Ford	PZEV	1.491
Tesla	ZEV	20.534
Tesla	ZEV	0.875

New Jersey ZEV transfers in between October 1, 2010 and September 30, 2011 (g/mi NMOG)		
Land Rover	PZEV	1.491
Honda	ZEV	20.534
Honda	ZEV	0.875

Frequently Asked Questions

What do these credit balances mean?

All manufacturers subject to the ZEV regulation are in compliance through model year 2010. The 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 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 the ZEV Tutorial link below.

Why are credit balances in units of grams/mile Non-Methane Organic Gases (g/mile NMOG)?

When credits are earned they are multiplied by the g/mile NMOG fleet average requirement for the appropriate model year. Please note that in the ZEV regulation g/mi NMOG is used only as index (which decreases 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.

How many vehicles have been brought to and operated in New Jersey as a result of the ZEV regulation?

A total of about 400,000 vehicles including approximately 111 battery electrics, 206 NEVs, 44,732 clean hybrids and 353,725 clean gasoline vehicles. These numbers represent vehicles through model year 2010.

More Information

[ZEV Regulation](#)

[ZEV Tutorial](#)

2009 ZEV Credit Archive (<http://www.nj.gov/dep/cleanvehicles/2009Data.pdf>)

[MAC 2011-02](#): Zero Emission Vehicle (ZEV) Credit Reporting and Tracking System

NMOG table from California Code of Regulations, Title 13, Section 1961(b)(1)(A)

Fleet Average Non-Methane Organic Gas Exhaust Mass Emission Requirements for Light-duty Vehicle Weight Classes (50,000 Mile Durability Vehicle Basis)		
Model Year	Fleet Average NMOG (grams per mile)	
	All PCs; LDTs 0-3750 lbs LVW	LDTs 3751 lbs. LVW - 8500 lbs. GVW
2001	0.070	0.098
2002	0.068	0.095
2003	0.062	0.093
2004	0.053	0.085
2005	0.049	0.076
2006	0.046	0.062
2007	0.043	0.055
2008	0.040	0.050
2009	0.038	0.047
2010+	0.035	0.043

Contact Us

For more information please contact the New Jersey DEP Low Vehicle Emission program at NJZEV@dep.state.nj.us (609)-292-8241.