

Massachusetts Low Emission Vehicle Program

2016 Zero Emission Vehicle Credits

Manufacturer Volume Status

The Zero Emission Vehicle (ZEV) Regulation requires large and intermediate volume vehicle manufacturers to deliver and place in service within Massachusetts (MA) 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	Intermediate
Fiat Chrysler	BMW
Ford	Hyundai
GM	Jaguar Land Rover
Honda	Kia
Nissan	Mazda
Toyota	Mercedes
	Subaru Corporation
	Volkswagen

Manufacturer Sales in Massachusetts

A vehicle manufacturer's 2016 ZEV requirement is based on a percentage of all passenger cars and light-duty trucks (LDTs) from 0 to 8,500 pounds, delivered for sale in MA. The table below is the 2016 MA vehicle production of large volume and intermediate volume manufacturers.

Large and Intermediate Volume Manufacturer 2016 Vehicle Production Delivered for Sale in MA	
Manufacturer	Passenger and LDT
BMW	10,521
Daimler AG	8,177
Fiat Chrysler	40,021
Ford	37,353
GM	38,503
Honda	57,962
Hyundai	14,370
Jaguar Land Rover	3,759
Kia	12,167
Mazda	13,108
Nissan	20,110
Subaru Corporation	23,039

Toyota	66,329
Volkswagen	18,178
Volvo	3,515
TOTAL	367,112

Manufacturer Credit Balances

In complying with the ZEV Regulation, manufacturers delivering and placing vehicles in MA 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 August 31, 2017 generated since the start of MA ZEV Program. The credits are in units of ZEV credits (2012 and prior, credits were expressed in grams per mile non-methane organic gas [NMOG]).

Manufacturer	FCV	BEV	BEVx	NEV+	TZEV	AT PZEV	PZEV
BMW	0.00	240.00	0.00	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	1,269.96	6,885.41	0.00	0.00	3.54	0.00	0.00
Fiat Chrysler	0.00	28,899.27	0.00	16,402.81	0.00	247.43	0.00
Ford	414.86	13,846.64	0.00	2,550.01	1,767.23	487.59	5,298.31
GM	0.00	11,637.70	0.00	9,354.53	1,811.70	358.65	1,896.88
Honda	(0.00)	5,255.41	0.00	1,947.23	585.18	0.00	7,558.52
Hyundai	1,093.23	0.00	0.00	0.00	42.80	432.76	3,086.49
Jaguar Land Rover	0.00	585.12	0.00	0.00	0.00	0.00	372
Kia	724.34	1,617.86	0.00	0.00	0.00	319.75	744.5
Mazda	0.00	375.00	0.00	0.00	0.00	0.00	925.33
MILES	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mitsubishi	0.00	25.19	0.00	0.00	0.00	0.00	1,324.06
Nissan	482.29	4,361.86	0.00	0.00	858.50	0.00	4,553.71
Polaris	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subaru Corporation	0.00	3,921.00	0.00	0.00	0.00	267.85	14,817.81
Tesla	0.00	3,720.00	0.00	0.00	0.00	0.00	0.00
Toyota	0.00	2,129.66	0.00	6,939.54	160.12	8,096.03	0.00
VANTAGE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volkswagen	1,363.43	5,137.75	0.00	0.00	152.08	127.8	845.06
Volvo	0.00	0.00	0.00	0.00	134.64	0.00	1,738.20
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	104.29	137.14
Total	5,348.11	88,637.86	0.00	37,194.12	5,515.79	10,442.15	43,298.01

Description of Credit Balances:

FCV = Fuel cell vehicle

BEV = Battery electric vehicle

BEVx = Range extended battery electric vehicles

NEV = Neighborhood Electric 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)
TZEV = Transitional Zero Emission Vehicle (plug-in hybrids)

Manufacturer Transfers

Manufacturers may transfer credits between manufacturers and third parties. Below are the ZEV credit transfers recorded between **October 1, 2016 and August 31, 2017**.

MA ZEV credit transfers recorded between October 1, 2016 and August 31, 2017		
Transferor	Vehicle Type	Total Credits
GM	NEV+	3,000.00
GM	TZEV	1,500.00
Honda	BEV	3,000.00
Honda	PZEV	2,800.00
Tesla	BEV	4,684.00
	Total	14,984.00

Transferee	Vehicle Type	Total Credits
GM	BEV	3,000.00
GM	PZEV	2,800.00
Honda	NEV+	3,000.00
Honda	TZEV	1,500.00
Subaru Corporation	BEV	3,921.00
Toyota	BEV	763.00
	Total	14,984.00

More Information

- Current California ZEV Regulation <https://ww2.arb.ca.gov/our-work/programs/zero-emission-vehicle-program/current-zero-emission-vehicle-regulation>
- Current Massachusetts LEV Regulation <https://www.mass.gov/regulations/310-CMR-700-air-pollution-control> (see 7.40 Low Emission Vehicles)
- 2009+ ZEV Credit Archive <https://www.mass.gov/info-details/massachusetts-zero-emission-vehicle-zev-credits> (see Historical Information)

Contact Us

For more information please contact the Low Emission Vehicle Program at 617-292-5762.