

# Massachusetts Low Emission Vehicle Program

## 2011 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 2011 vehicle manufacturers subject to the ZEV requirements.

2011 Manufacturer Volume Status	
Large	Intermediate
Chrysler Group	BMW
Ford	Hyundai
GM	Kia
Honda	Land Rover
Nissan	Mazda
Toyota	Mercedes Benz
	Subaru
	Volkswagen
	Volvo

### Manufacturer Sales in Massachusetts

A vehicle manufacturer's 2011 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 2011 MA vehicle production of large volume and intermediate volume manufacturers.

Large and Intermediate Volume Manufacturer 2011 Vehicle Production Delivered for Sale in MA		
Manufacturer	Passenger and LDT1	LDT2
BMW	8,505	1,768
Chrysler Group	7,409	12,845
Ford	19,634	8,773
GM	16,272	16,886
Honda	30,821	11,045
Hyundai	13,152	2,079
Jaguar Land Rover	0	1,405
Kia	5,081	3,899
Mazda	3,983	1,580

Mercedes	3,568	1,951
Nissan	14,063	7,210
Subaru Corporation	9,268	4,970
Toyota	31,104	25,404
Volkswagen	8,722	2,250
Volvo	668	1,088
<b>TOTAL</b>	<b>275,403</b>	<b>103,153</b>

## 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, 2012 generated since the start of MA ZEV Program. The credits are in units of grams per mile non-methane organic gas (g/mi NMOG).

Manufacturer	ZEV	NEV+	TZEV	AT PZEV	PZEV
Azure Dynamics, Inc.	0.016	0.00	0.00	0.00	0.00
BMW	75.29	0.00	0.00	0.00	0.00
Chrysler Group	15.13	1010.20	0.00	2.37	0.00
Ford	136.68	204.81	0.00	103.34	341.24
GM	306.34	715.14	0.00	0.00	0.00
Honda	92.49	0.00	128	81.15	114.57
Hyundai	25.76	0.00	0.00	0.00	131.95
Jaguar Land Rover	0.00	0.00	0.00	0.00	52.30
Kia	25.352	0.00	0.00	0.00	0.00
Mazda	0.00	0.00	0.00	0.00	102.07
Mercedes	67.5	40.1	00.00	0.64	0.00
MILES	0.00	0.00	0.00	0.00	0.00
Mitsubishi	0.23	0.00	0.00	0.00	46.34
Nissan	53.34	0.00	0.00	0.00	329.44
Polaris	0.00	0.00	0.00	0.00	0.00
Subaru Corporation	0.00	0.00	0.00	0.00	264.93
Tesla	0.35	0.00	0.00	0.00	0.00
THINK North America	0.00	0.00	0.00	0.00	0.00
Toyota	92.43	0.00	0.18	775.32	25.77
VANTAGE	0.00	0.00	0.00	0.00	0.00
Volkswagen	55.41	0.00	0.00	0.00	58.55
Volvo	0.00	0.00	0.00	0.00	0.00
ZENITH	0.00	0.00	0.00	0.00	0.00
Zipcar	0.00	0.00	0.00	3.650	4.800
<b>Total</b>	<b>946.318</b>	<b>1970.25</b>	<b>128.18</b>	<b>966.47</b>	<b>1471.96</b>

Description of Credit Balances:

ZEV = Zero emission vehicle

NEV = Neighborhood Electric Vehicle

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

AT PZEV = Advanced Technology Partial Zero Emission Vehicle

PZEV = Partial Zero Emission Vehicle

## Manufacturer Transfers

Manufacturers may transfer credits between manufacturers and third parties. Below are the ZEV credit transfers recorded between **October 1, 2011 and August 31, 2012**.

MA ZEV credit transfers recorded between October 1, 2011 and August 31, 2012		
Transferor	Vehicle Type	Total Credits
Tesla	ZEV	0.350
	<b>Total</b>	<b>0.350</b>

Transferee	Vehicle Type	Total Credits
Honda	ZEV	0.350
	<b>Total</b>	<b>0.350</b>

## 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.