

Massachusetts Low Emission Vehicle Program

2021 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), and plug-in hybrids. The table below lists the 2021 vehicle manufacturers subject to the ZEV requirements.

2021 Manufacturer Volume Status	
Large	Intermediate
BMW	Jaguar Land Rover
Fiat Chrysler	Mazda
Ford	Subaru Corporation
GM	Tesla
Honda	Volvo
Hyundai	
Kia	
Mercedes-Benz AG	
Nissan	
Toyota	
Volkswagen	

Manufacturer Sales in Massachusetts

A vehicle manufacturer's 2021 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 2021 MA vehicle production of large volume and intermediate volume manufacturers.

Large and Intermediate Volume Manufacturer 2021 Vehicle Production Delivered for Sale in MA	
Manufacturer	Passenger Cars and LDT1
BMW	9,272
Fiat Chrysler	40,871
Ford	20,948
GM	27,139
Honda	33,690
Hyundai	10,834

Jaguar Land Rover	2,449
Kia	11,115
Mazda	11,154
Mercedes-Benz AG	6,340
Nissan	17,674
Subaru Corporation	21,366
Tesla	5,059
Toyota	60,840
Volkswagen	19,588
Volvo	5,151
TOTAL	303,490

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, 2022 generated since the start of MA ZEV Program. The credits are in units of ZEV credits.

Manufacturer	FCV	BEV	BEVx	NEV+	DISCOUNT	TZEV
BMW	0.00	1,260.82	2,879.97	0.00	0.00	398.62
BYD Motors Inc.	0.00	0.00	0.00	0.00	0.00	0.00
Fiat Chrysler	0.00	20,529.12	0.00	13,384.46	0.00	0.00
Ford	0.00	15,449.98	0.00	636.50	378.04	0.00
GM	0.00	21,348.59	0.00	7,370.03	0.00	3,083.01
Honda	2,385.08	1,990.81	0.00	0.00	0.00	0.00
Hyundai	(0.01)	2,232.14	0.00	0.00	141.65	0.00
Jaguar Land Rover	0.00	286.50	0.00	0.00	0.00	1.74
KIA	0.00	733.27	0.00	0.00	48.78	50.40
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	1,085.96	0.00	0.00	0.00	0.00
Mercedes-Benz AG	0.00	929.76	0.00	0.00	0.00	3,186.31
MILES	0.00	0.00	0.00	0.00	0.00	0.00
Mitsubishi	0.00	510.69	0.00	0.00	331.01	274.80
Nissan	0.00	1,942.84	0.00	0.00	(0.01)	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	28,315.98	0.00	0.00	328.78	0.00

Tesla	0.00	47,194.63	0.00	0.00	0.00	0.00
Toyota	0.00	27,850.64	0.00	3,967.90	1,089.55	5,130.77
VANTAGE	0.00	0.00	0.00	0.00	0.00	0.00
Volkswagen	0.00	7,578.56	0.00	0.00	(0.01)	132.15
Volvo	0.00	335.75	0.00	0.00	405.65	0.00
ZENITH	0.00	0.00	0.00	0.00	0.00	0.00
Zipcar	0.00	0.00	0.00	0.00	60.36	0.00

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, 2021 and August 31, 2022**.

MA ZEV credit transfers recorded between 10/1/2021 and 8/31/2022		
Transferor	Vehicle Type	Total Credits
Tesla	BEV	1,468.00
	Total	1,468.00
Transferee	Vehicle Type	Total Credits
Mazda	BEV	1,468.00
	Total	1,468.00

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.