Advanced Clean Cars and Trucks Rule

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New Mexico Emissions

- Greenhouse Gases
  - Methane
  - Carbon Dioxide

- Criteria Air Pollutants
  - Ground-level ozone
  - Particulate matter
  - Carbon Monoxide
  - Lead
  - Sulfur Dioxide
  - Nitrogen Dioxide

Ground-level Ozone

Ozone Levels in Parts per Million (ppm), by County

Air Quality Monitor Location	Air Quality Standards and Monitoring Data		
	2020	2021	2022
Federal Standard	**0.070 ppm**	**0.070 ppm**	**0.070 ppm**
State Standard	**0.066 ppm**	**0.066 ppm**	**0.066 ppm**
Bernalillo	0.071 ppm	0.073 ppm	0.073 ppm
Dona Ana	0.078 ppm	0.080 ppm	0.081 ppm
Eddy	0.078 ppm	0.077 ppm	0.077 ppm
Lea	0.068 ppm	0.066 ppm	0.066 ppm
Rio Arriba	0.065 ppm	0.064 ppm	0.064 ppm
Sandoval	0.070 ppm	0.068 ppm	0.070 ppm
San Juan	0.068 ppm	0.068 ppm	0.070 ppm
Santa Fe	0.068 ppm	0.066 ppm	0.067 ppm
Valencia	0.069 ppm	0.066 ppm	0.066 ppm

Red text indicates an exceedance of the state standard *Source: U.S. EPA*

Note: The ppm levels in red exceed state levels.

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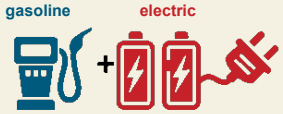
Battery Electric Vehicles (BEVs)
- Use an electric motor
- Batteries are charged externally

Hydrogen Fuel Cell Electric Vehicles (FCEVs)
- Fueled by hydrogen
- Battery converts hydrogen to electricity
- Emits water

Plug-in Hybrid Electric Vehicles (PHEVs)
- Internal combustion engine (long trips) and an electric motor (short trips)



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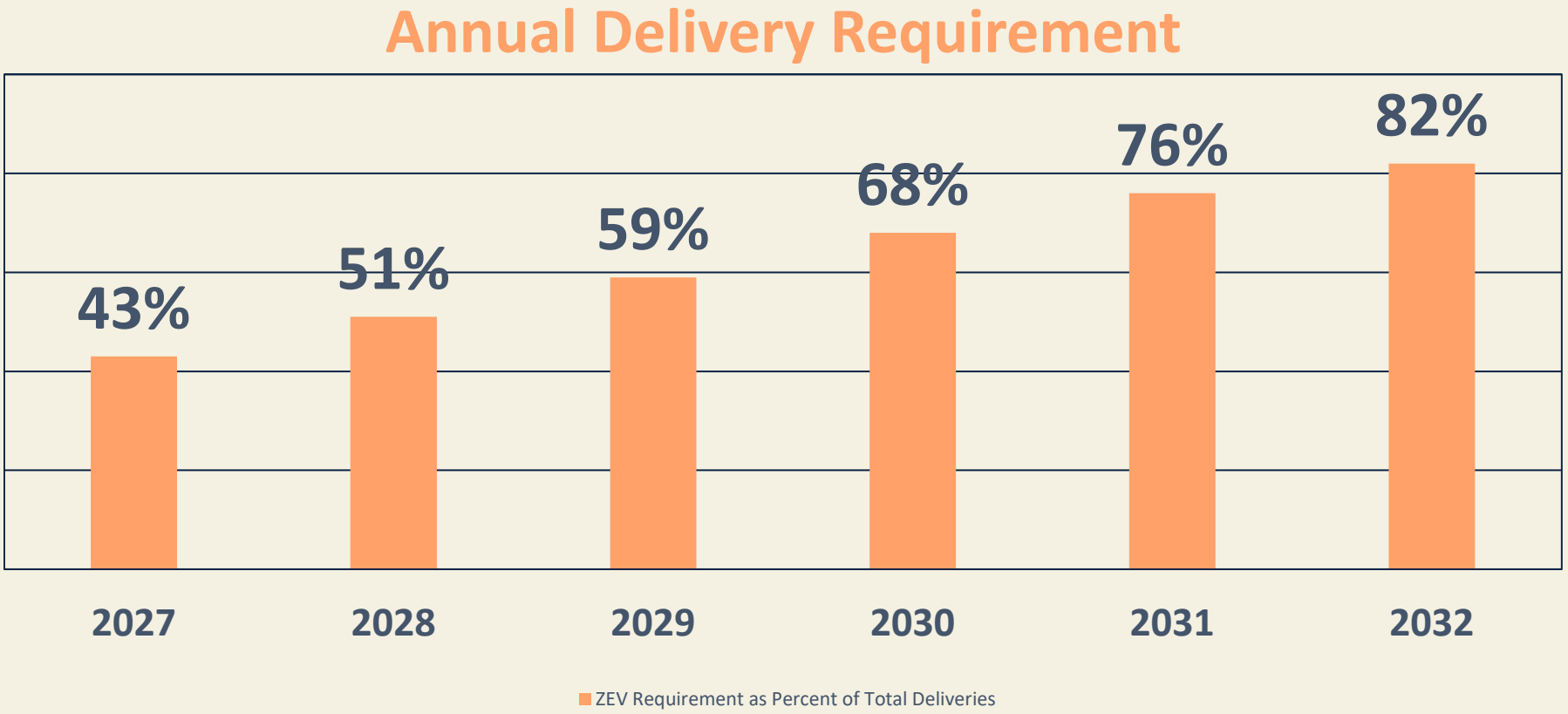
Requires vehicle manufacturers to deliver more Zero Emission Vehicles for sale in New Mexico



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NM Vehicle Statistics:

- ~2M registered statewide.
- ~70K purchased annually.
- Average age: ~14 years.
- ~72% drive to work alone.
- Actual BEV + PHEV Sales:

2022

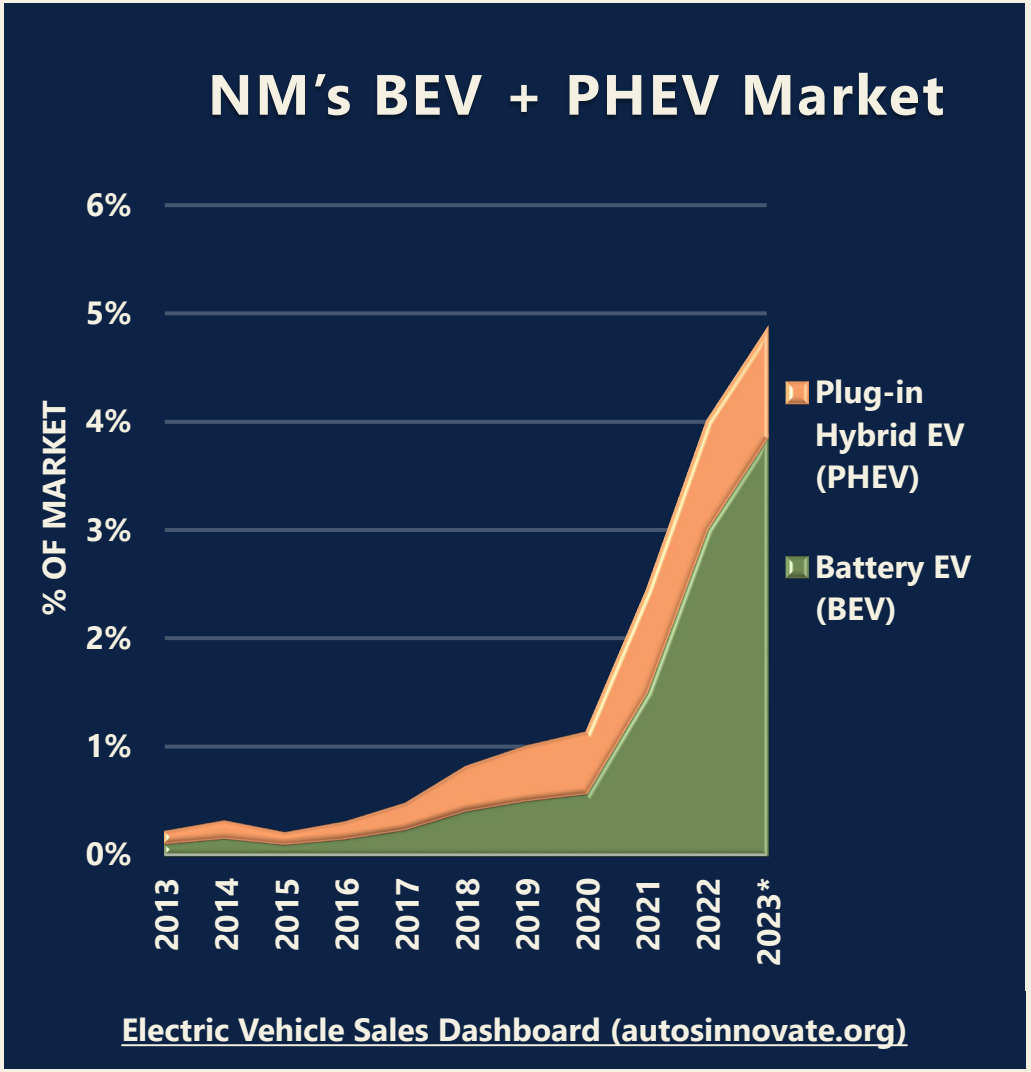
- 2,732

(~1.2% of U.S. market)

2023

- 3,350

(projected thru 12/23)



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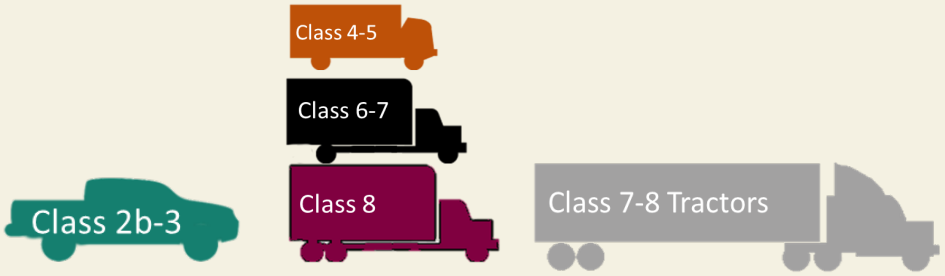
Flexibilities in how to achieve the percentages, similar to Advanced Clean Cars

Percentages vary by weight class



Model Year	Class 2B-3	Class 4-8	Class 7-8
2027	15%	20%	14%
2028	20%	30%	20%
2029	25%	40%	25%
2030	30%	50%	30%
2031	35%	55%	35%
2032	40%	60%	40%
2033	45%	65%	40%
2034	50%	70%	40%
2035	55%	75%	40%

Decarbonizing Transportation