



Clean Cars & Trucks Rule for New Mexico



Advanced Clean Cars II, Advanced Clean Trucks,
and Heavy-Duty Omnibus Rules
Santa Fe Southside Library, September 19, 2023

New Mexico Environment Department

City of Albuquerque



Agenda



Welcome

- Introductions
- Orientation
- Housekeeping

Presentation

- Overview
- Proposed Rules
- Benefits of Rules
- Rulemaking Process
- Engagement Opportunities

Roundtables – Open House

Adjourn: 6:30





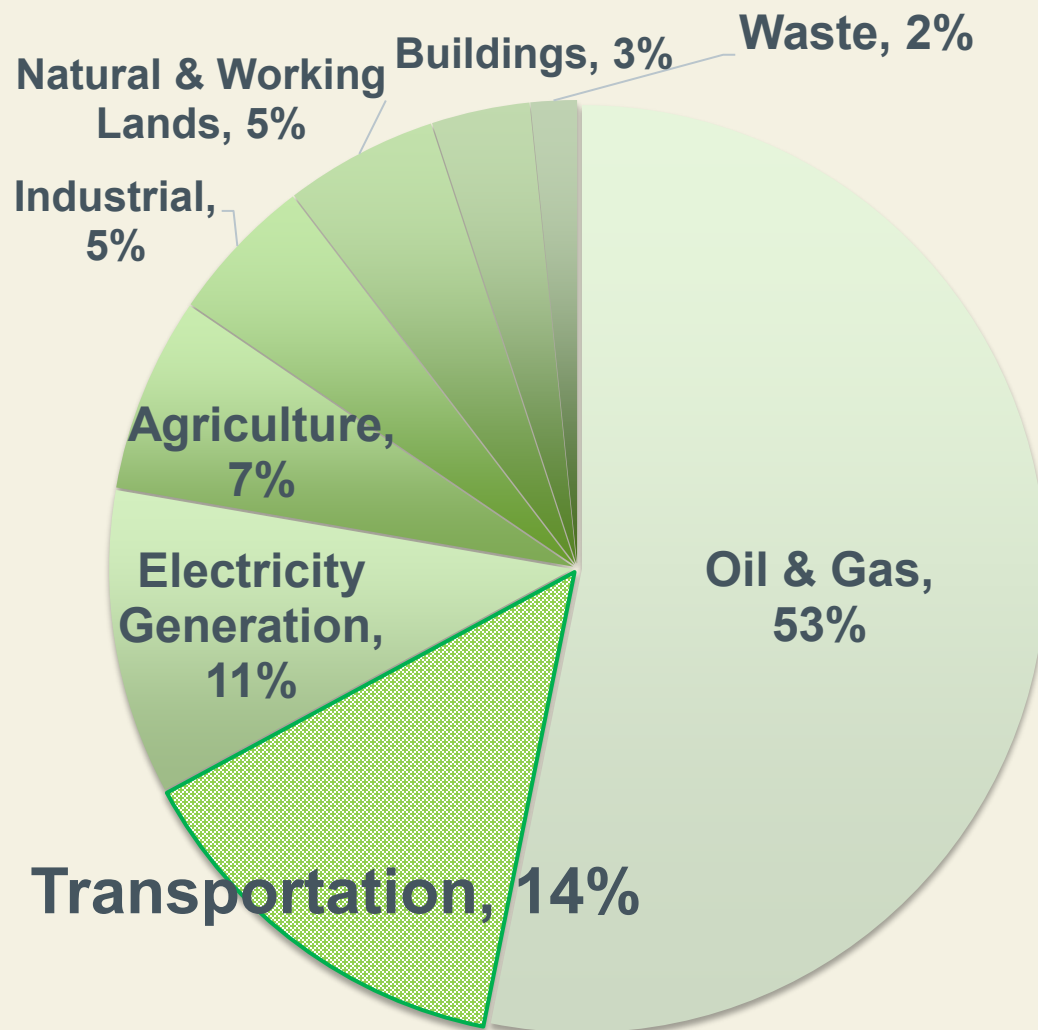
Emissions from Transportation in NM



15.8 million metric tons carbon dioxide equivalents from transportation in 2018

Results in asthma, heart disease, lost workdays, hospitalization, premature death

Largest impacts on communities along transportation corridors



Source: New Mexico 2020 Climate Change Report;

https://www.climateaction.state.nm.us/documents/reports/NMClimateChangeReport_2020.pdf



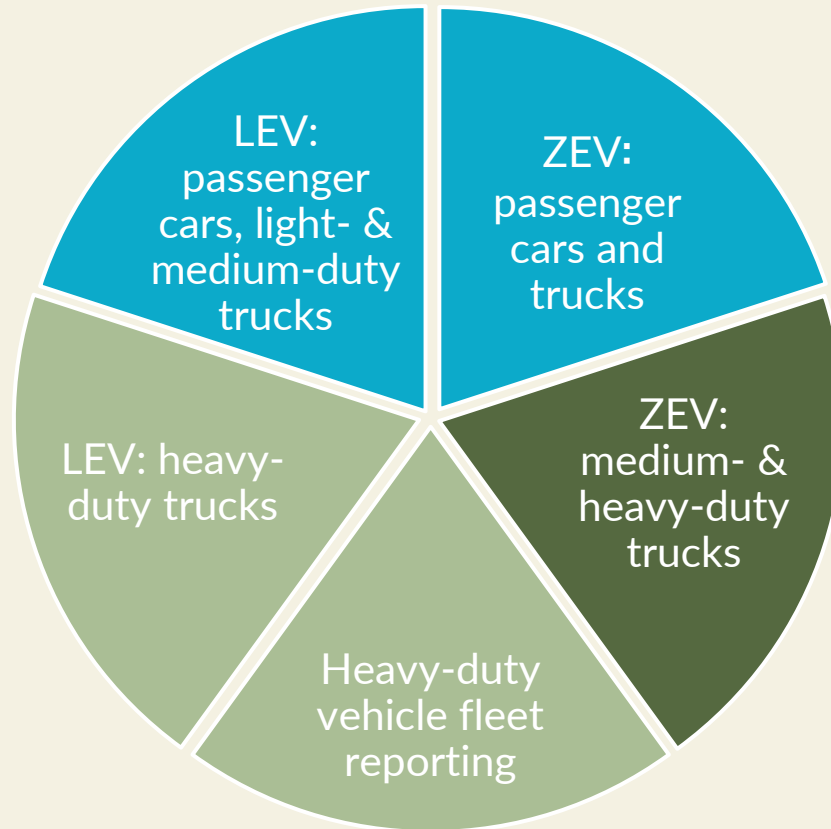
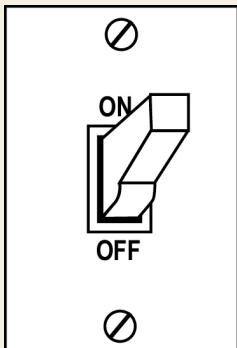
5 Primary Components of the Proposed Rules



Advanced Clean Cars II (ACC II)

Advanced Clean Trucks (ACT)

Heavy Duty Omnibus (HDO, Low NOx)



Under federal law, states may choose to adopt California's Clean Car Standards.

16 states have adopted or are currently working to adopt these rules.

Once in effect in January 2026 with model year 2027, car and truck lots will offer cleaner low-emission vehicles (LEV) and zero-emission vehicles (ZEV) than they are today.



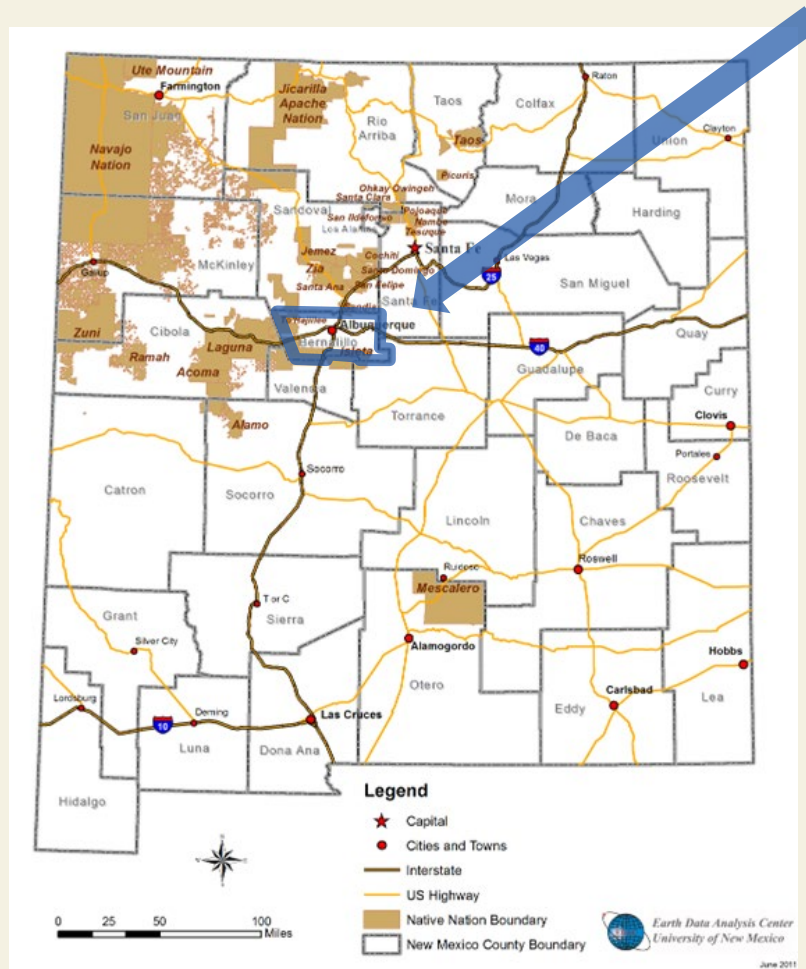
Collaborative Rulemaking in Two Air Quality Jurisdictions



NMED's rules for approval by the New Mexico *Environmental Improvement Board (EIB)*

Rules do not apply to Tribal lands

City of Albuquerque Environmental Health Department seeking approval by the Albuquerque Bernalillo County Air Quality Control Board (*Air Board*)





Low-emission Vehicles (LEV) Standards



Internal combustion engines

Stricter emission tailpipe standards

- Particulate matter 2.5 (PM 2.5)
- Nitrogen oxides (NO_x)

Standards set emission averages for the fleet each manufacturer delivers to New Mexico

- Non methane organic gases
- Greenhouse gas emissions

RESULTS

- Higher fuel efficiency
- Cleaner “traditional” passenger cars, SUVs, pickups, and heavy-duty trucks
- Reduces NO_x emissions heavy-duty trucks





3 Types of Cars

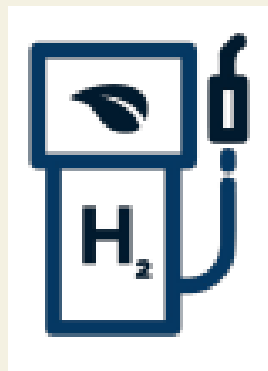
Battery Electric Vehicles (BEVs)

- 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)

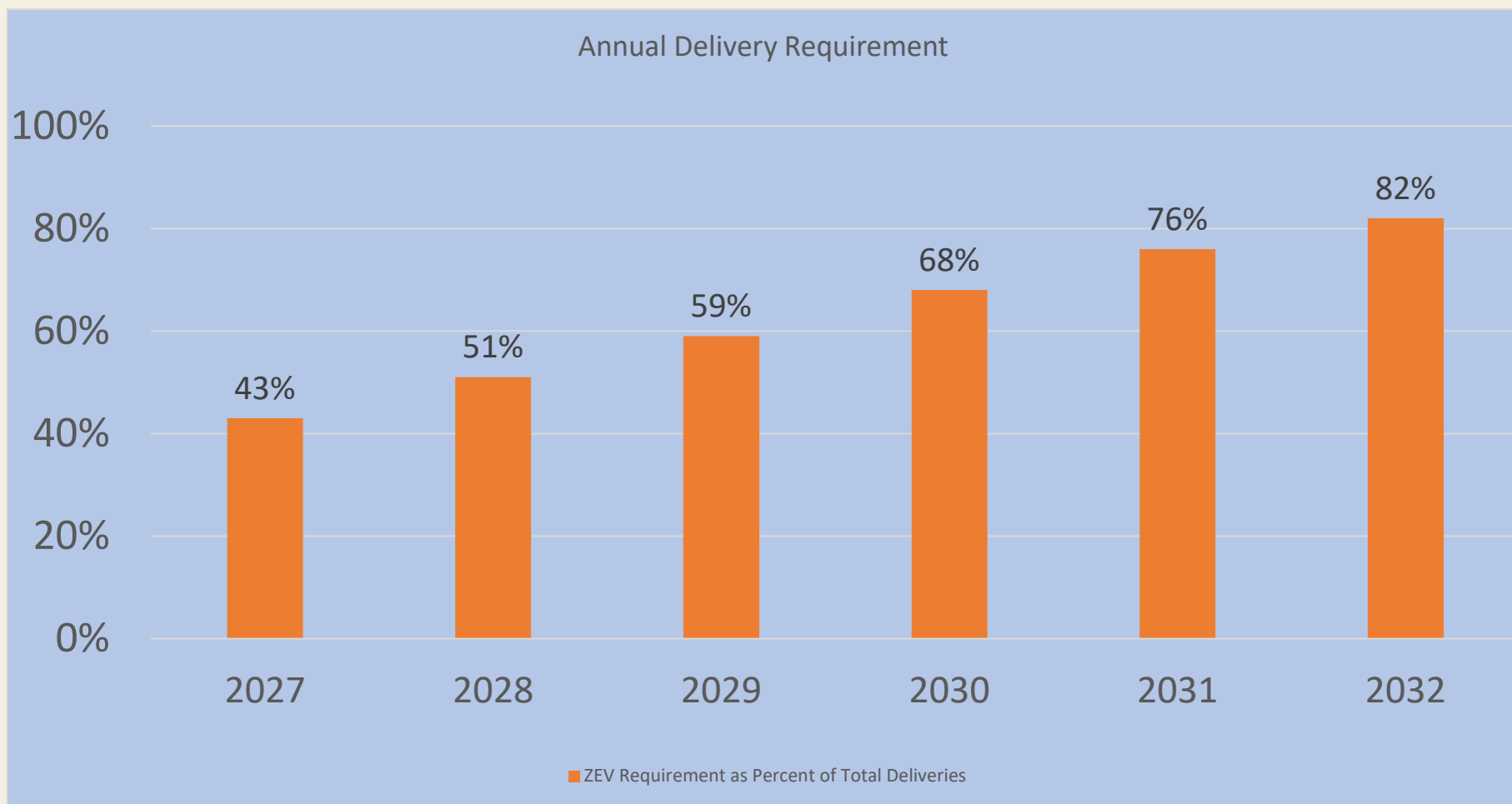




Light-duty ZEV Delivery Requirement



Requires auto manufacturers to deliver more light-duty zero-emission vehicles for sale in New Mexico





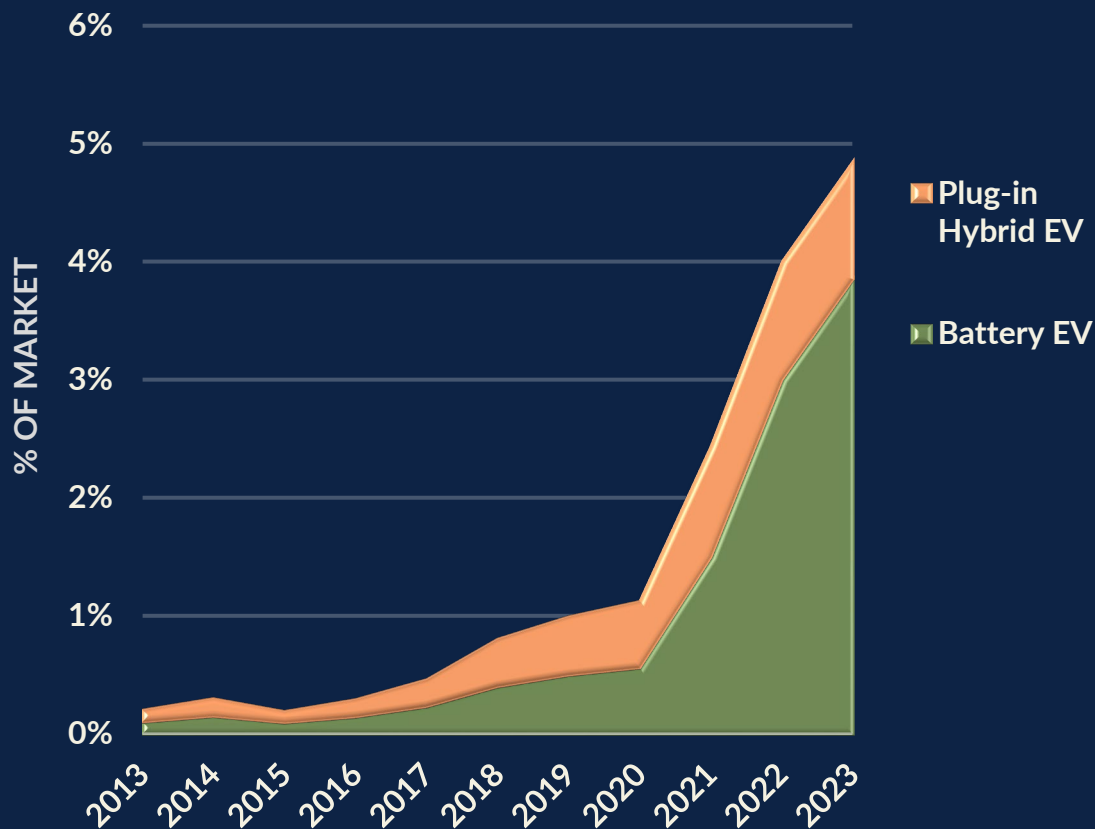
Light Duty ZEV Sales in NM Are Growing



Clean Car & Trucks Statistics:

- Registered Vehicles = 2 million
- 70.4 K vehicles purchased annually in NM
- NM's Total Market Share of US BEVs & PHEVs:
 - ~1.2%
- Average age of vehicles in NM: 13.9 years
- 72% of people drive to work alone

NM's BEV + PHEV Market



Electric Vehicle Sales Dashboard (autosinnovate.org)



Benefits For Consumers



- ✓ More Choices
- ✓ Greater Assurance
- ✓ Lower Total Cost of Ownership

BEV Owner Savings (Model Year 2026):

- Avg. Retail Price:
 - +\$3,102
- Without Home Charging:
 - -\$3,216
- With Home Charging:
 - -\$4,267

ENERGYWIRE | *"Leasing an electric vehicle is the most affordable option for consumers looking for a new car and is cheaper than buying or leasing a gasoline-powered car, according to new research."*

August 24, 2023

Source: CARB - Proposed Advanced Clean Cars II Regulations, June 9, 2022

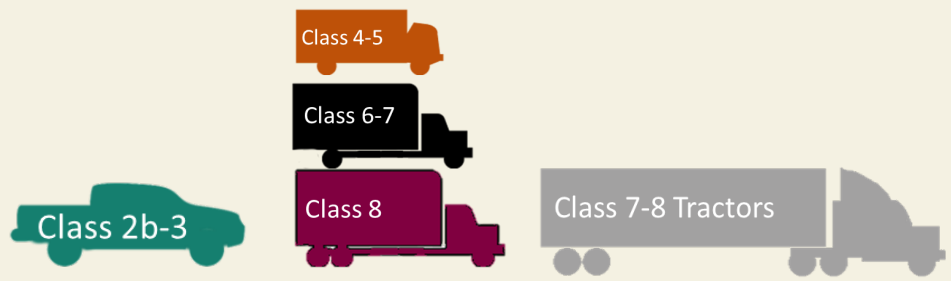


Clean Trucks ZEV Delivery Percentage



Flexibilities in how to achieve the percentages, similar to ACC II

Percentages vary by weight class



<i>Model Year</i>	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%



Cleaner Air and Less Ozone

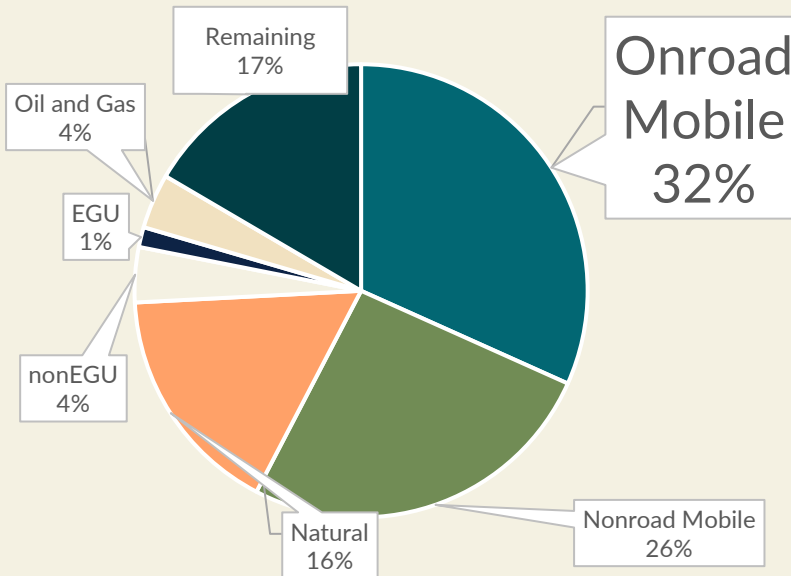


Over \$30 M in cumulative Health Benefits by 2040

Significantly reduces sources of

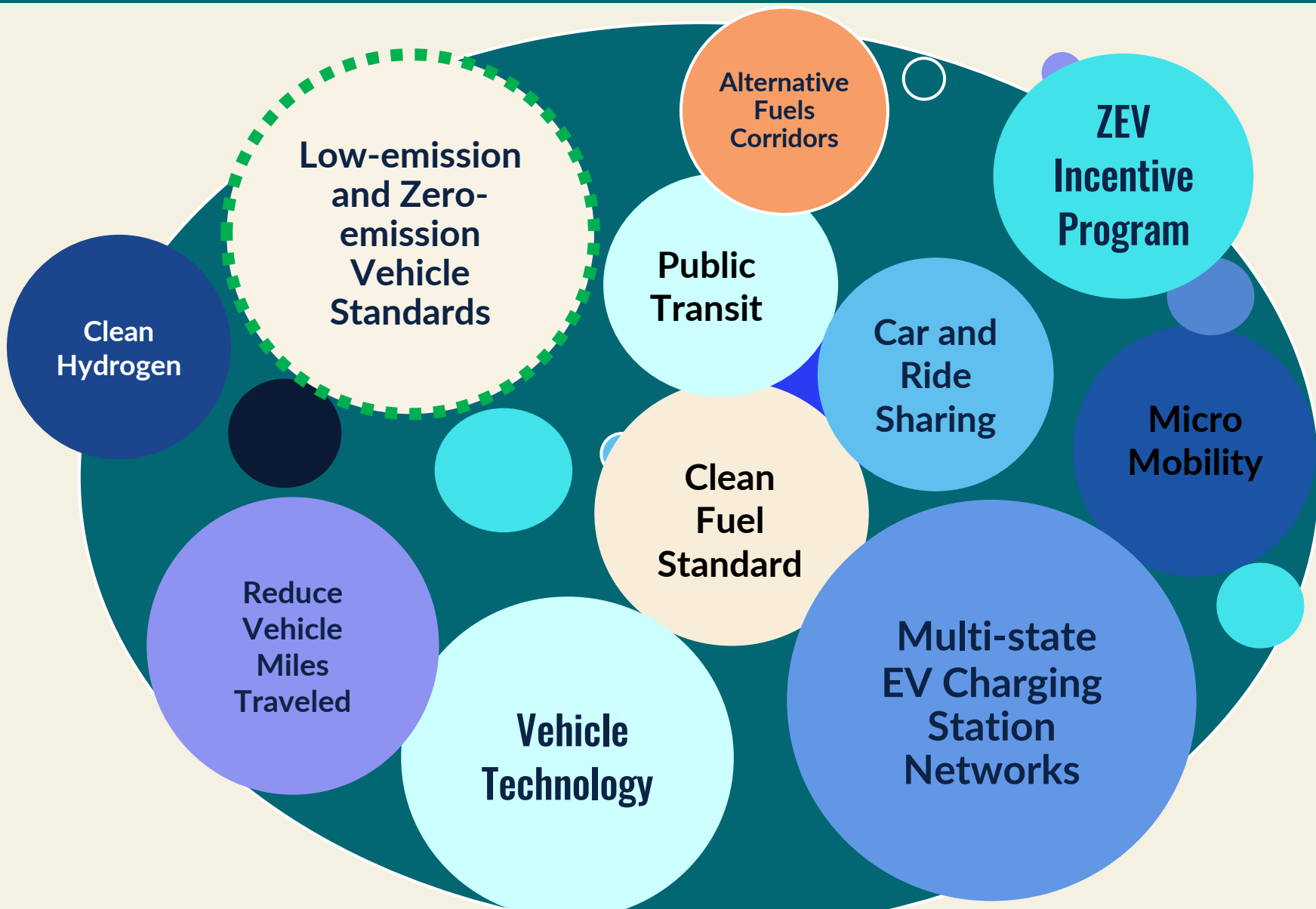
- ozone pollution in metro areas
- particulate matter (PM2.5)

Santa Fe (Airport)





Many Strategies to Decarbonize Transportation





The Rulemaking Process & Schedule



Rulemaking Petitions Approved: August 9 and 18, 2023

Public Meetings: September 19, October 4 and 16, 2023

Joint Hearing of Boards: November 13-15, 2023

Boards' Possible Final Decision: November 16, 2023

State Register Publishes Final Rule

Rule Becomes Effective by end of 2023



Stay Informed



NMAC 20.11.91: Rules statewide
(except in Bernalillo County)

<https://www.env.nm.gov/transportation/>

NMAC 20.11.104: Rules in Bernalillo County

<https://www.cabq.gov/airquality/regulation-development/clean-vehicles-regulation-documents>

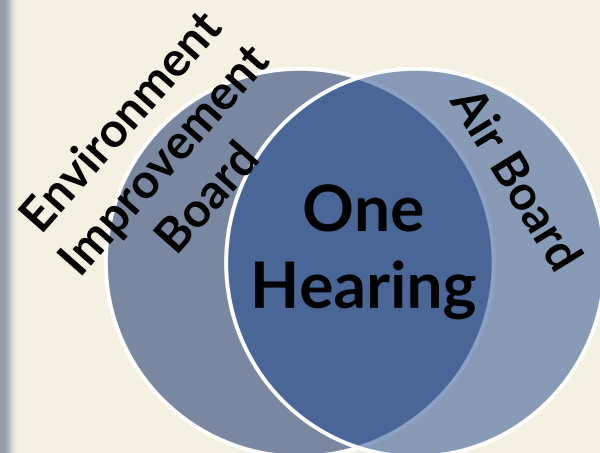
- Public Meeting #2: October 4, 2023, 4:30 pm; virtual <https://www.env.nm.gov/events-calendar/>
- Public Meeting #3: October 16, 2023, 4:30 pm; International District Public Library Community Meeting Room, 7601 Central Ave NE, Albuquerque
- Receive email updates by signing up for our listserv at the registration table
- Invite us to discuss with your organization's members
- Follow us on social media @NMEnvDep #IamNMED



Provide Comments



- Participate in the three public meetings
- Provide written comments today; handwritten or electronically at available laptops
- Submit comments to Board Administrators until the close of the hearing, November 16
- Provide oral public comment to the Boards at designated times during the November rulemaking hearing



Environmental Improvement Board:
<https://nmed.commentinput.com/?id=TuMmsArBj>

Air Quality Control Board:
airboard@cabq.gov
Environmental Health Department:
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Contact Information

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Round Table Discussion Topics



Rule
Overview

ZEVs (e.g.
electric
and
hydrogen
vehicles)

Climate
Action in
NM

Charging and
Fueling
Infrastructure
/ Impacts on
Road Fund

Provide
Comment

Rule
Benefits

Spanish
Interpreters

Consumer
Rebates,
PNM
Planning