



# Clean Cars & Trucks Rules for New Mexico



## *Reglas para Autos y Camiones Limpios*

Virtual via WebEx - October 4, 2023

New Mexico Environment Department

City of Albuquerque, Environmental Health Department

This virtual meeting is being recorded.



# Spanish Interpretation

## *Interpretación en Español*



*¡Bienvenidos!*

*¿Necesita interpretación en español para esta reunión pública?*

*Si es así, aquí están las direcciones para las personas con computadora:*

- 1) Por teléfono, llame al **1-800-747-5150**.*
- 2) Se le pedirá que introduzca un código de acceso, introduzca **6944669 #**. No es necesario seguir ninguna instrucción adicional.*
- 3) Espere y se le permitirá entrar a la reunión.*
- 4) Los intérpretes en la reunión realizarán interpretación simultánea.*

*Si tiene problemas, díganoslo en el "chat"*

Ready for some pre-meeting fun???

While we give folks a few more minutes to join the meeting or connect to interpreters, let's play a game!

To participate, answer the "poll" questions popping up on your screen.



# Clean Cars & Trucks Rules for New Mexico



Advanced Clean Cars II, Advanced Clean Trucks,  
and Heavy-Duty Omnibus Rules  
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# Agenda



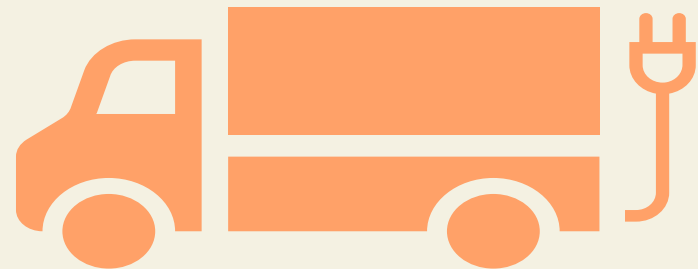
Introductions  
Orientation  
Housekeeping

Presentation

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

Two 15 min Breakout Sessions

Adjourn: 6:30





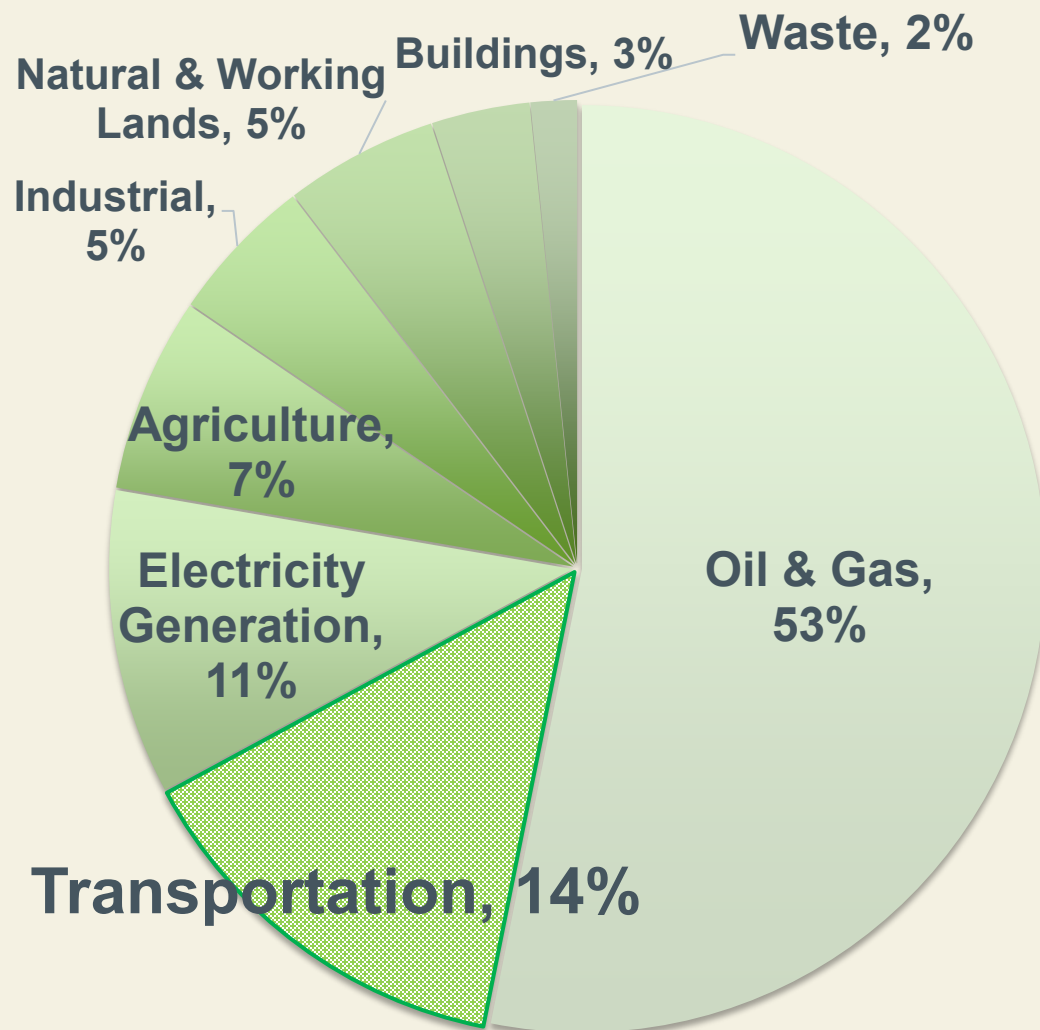
# Emissions from Transportation in NM



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





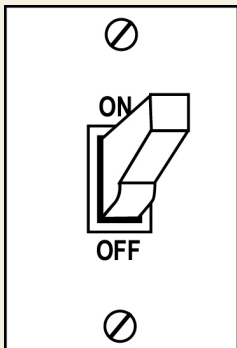
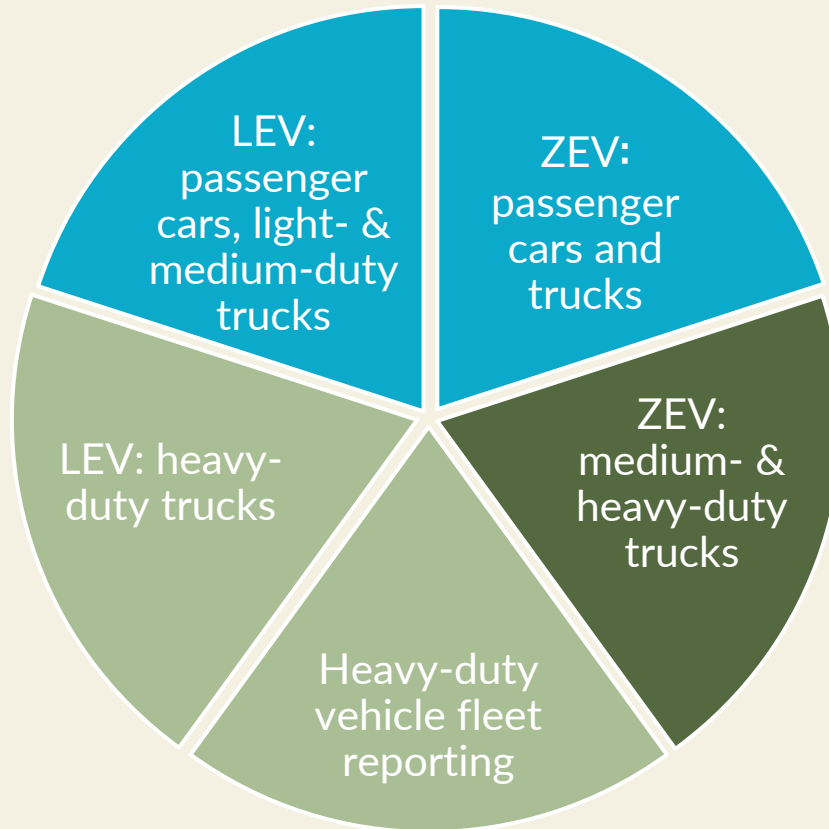
# 5 Primary Components of the Proposed Rules



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.



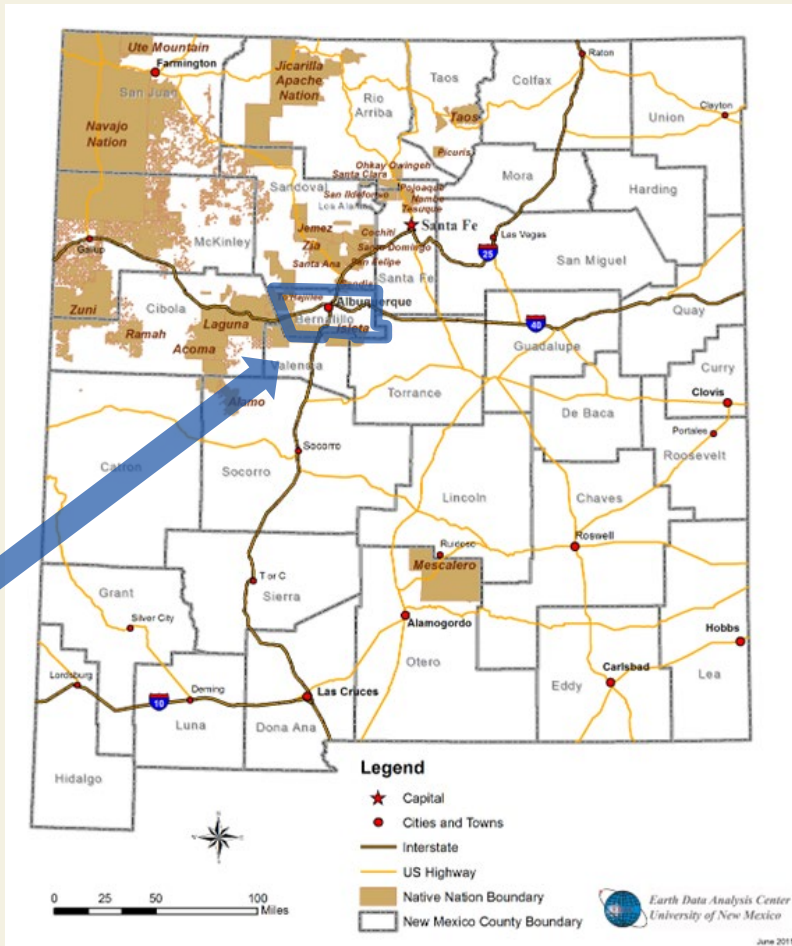
# Collaborative Rulemaking in Two Air Quality Jurisdictions



NMED is seeking approval by the New Mexico *Environmental Improvement Board (EIB)*

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

Rules do not apply to Tribal Lands







# Collaborative Rulemaking in Two Air Quality Jurisdictions



20.2.91 NMAC (NMED/EIB Reg)

+ 20.11.104 NMAC (EHD/AQCB Reg)

= New Mexico State-Wide Clean Vehicles Program

Identical Emission Standards and Requirements to California

Nearly Identical Administration and Enforcement Provisions to California\*

\* Authorized in the Clean Air Act



# Low-Emission Vehicles (LEV) Standards



Internal combustion engines

Stricter emission tailpipe standards

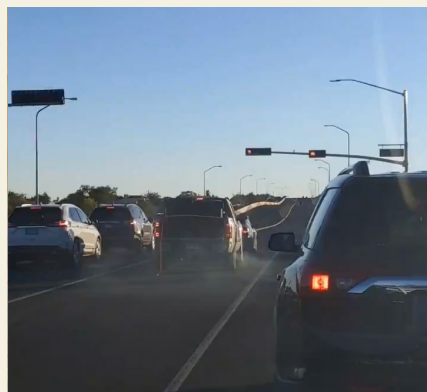
- Particulate matter 2.5 (PM 2.5)
- Nitrogen oxides (NO<sub>x</sub>)

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<sub>x</sub> emissions heavy-duty trucks

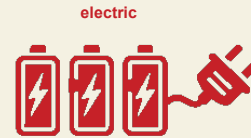




# 3 Types of Cars

## Battery Electric Vehicles (BEVs)

- Use an electric motor
- Batteries are charged externally



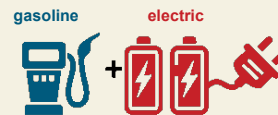
## Hydrogen Fuel Cell Electric Vehicles (FCEVs)

- 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)



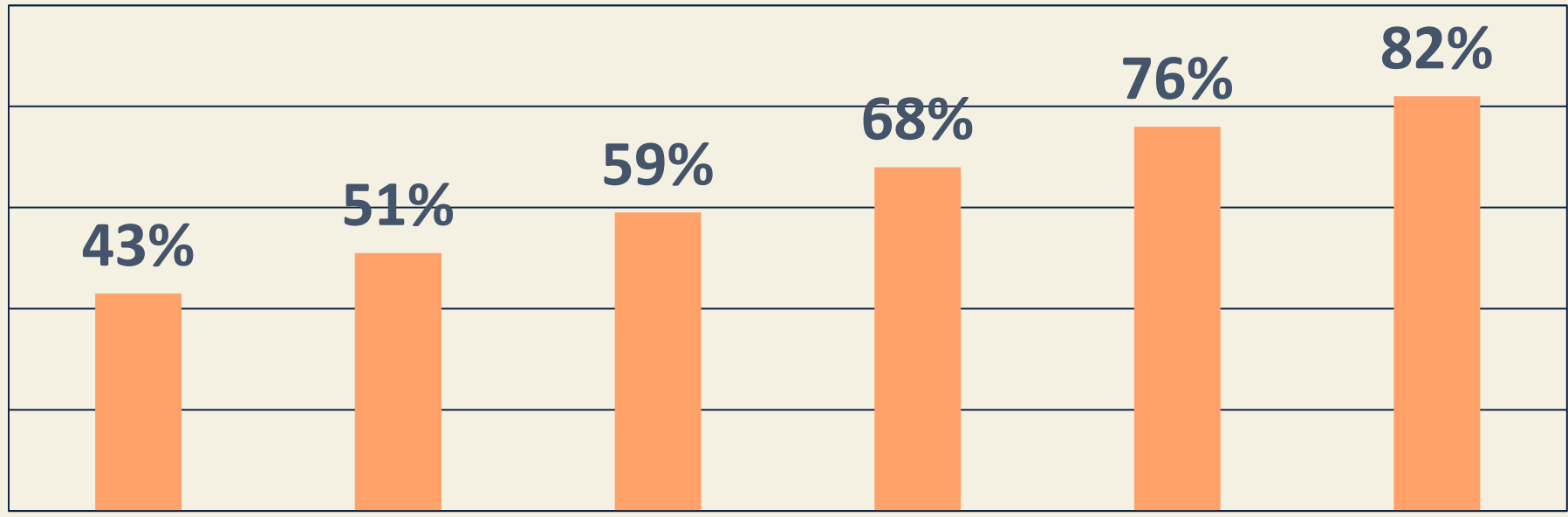


# Light-Duty ZEV Delivery Requirement



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

## Annual Delivery Requirement



■ ZEV Requirement as Percent of Total Deliveries



# NM's Light-Duty ZEV Sales Are Growing!



## NM Vehicle Statistics:

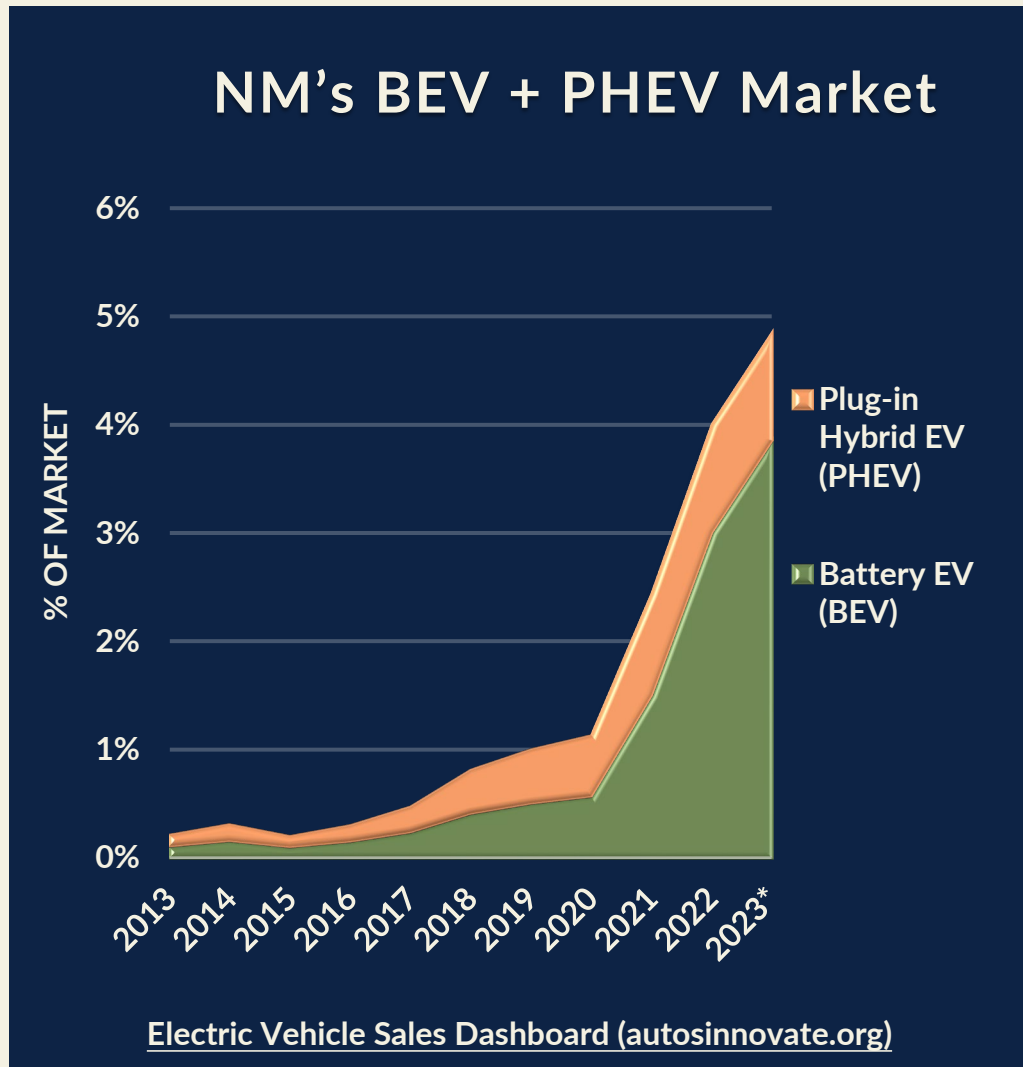
- ~2M registered statewide.
- ~70K purchased annually.
- Average age: ~14 years.
- ~72% drive to work alone.
- Actual BEV + PHEV Sales:

### 2022

- 2,732  
(~1.2% of U.S. market)

### 2023

- 3,350  
(projected thru 12/23)





# Benefits For Consumers



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

**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

## BEV Owner Savings (Model Year 2026):

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

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

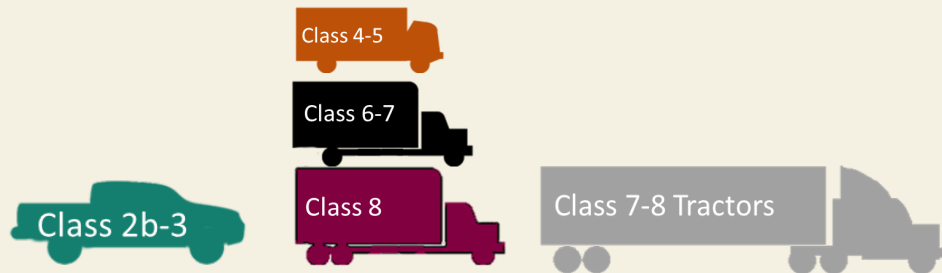


# Clean Trucks ZEV Delivery Percentage



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

Percentages vary by weight class



<i>Model Year</i>	<b>Class 2B-3</b>	<b>Class 4-8</b>	<b>Class 7-8</b>
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

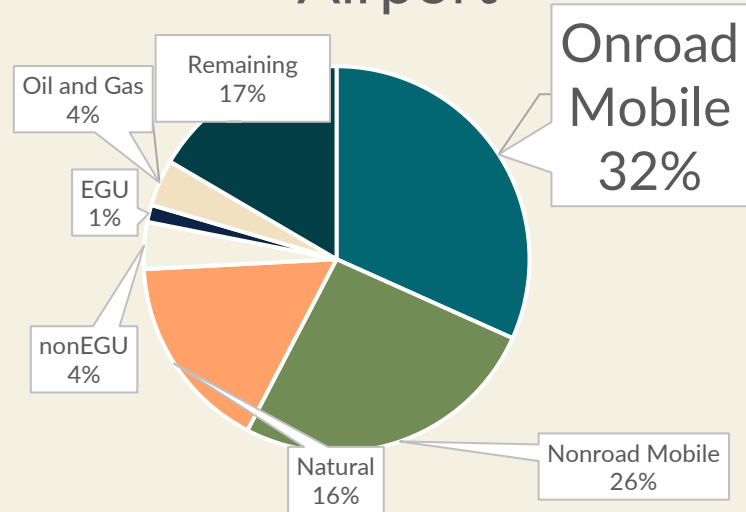


Over \$30 M in cumulative Health Benefits by 2040

Significantly reduces sources of

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

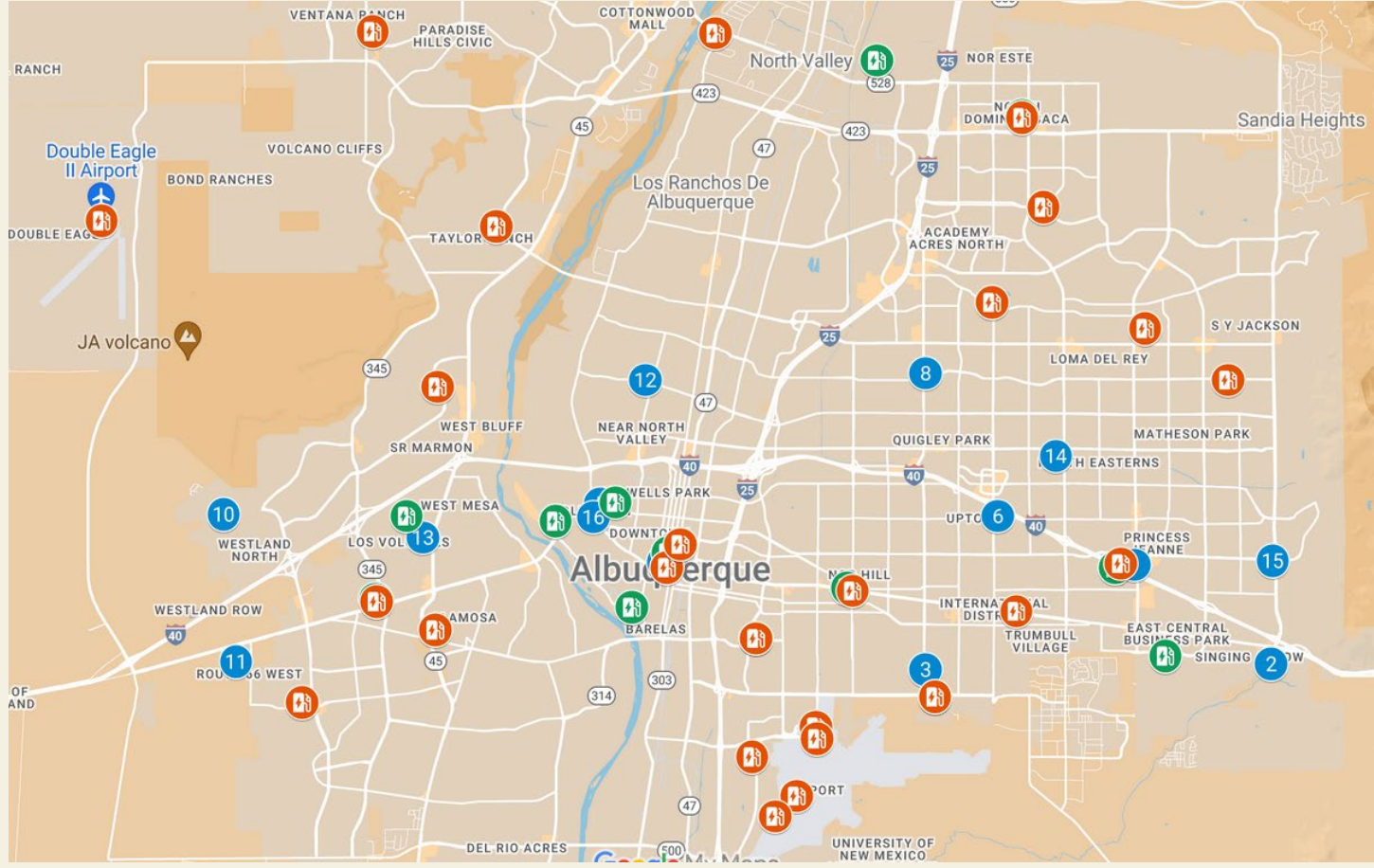
## Ozone sources at the Santa Fe Airport







# Albuquerque Charging Build-Out



20  
Existing  
Chargers

32  
Confirmed  
New  
Chargers

25  
Chargers  
Planned

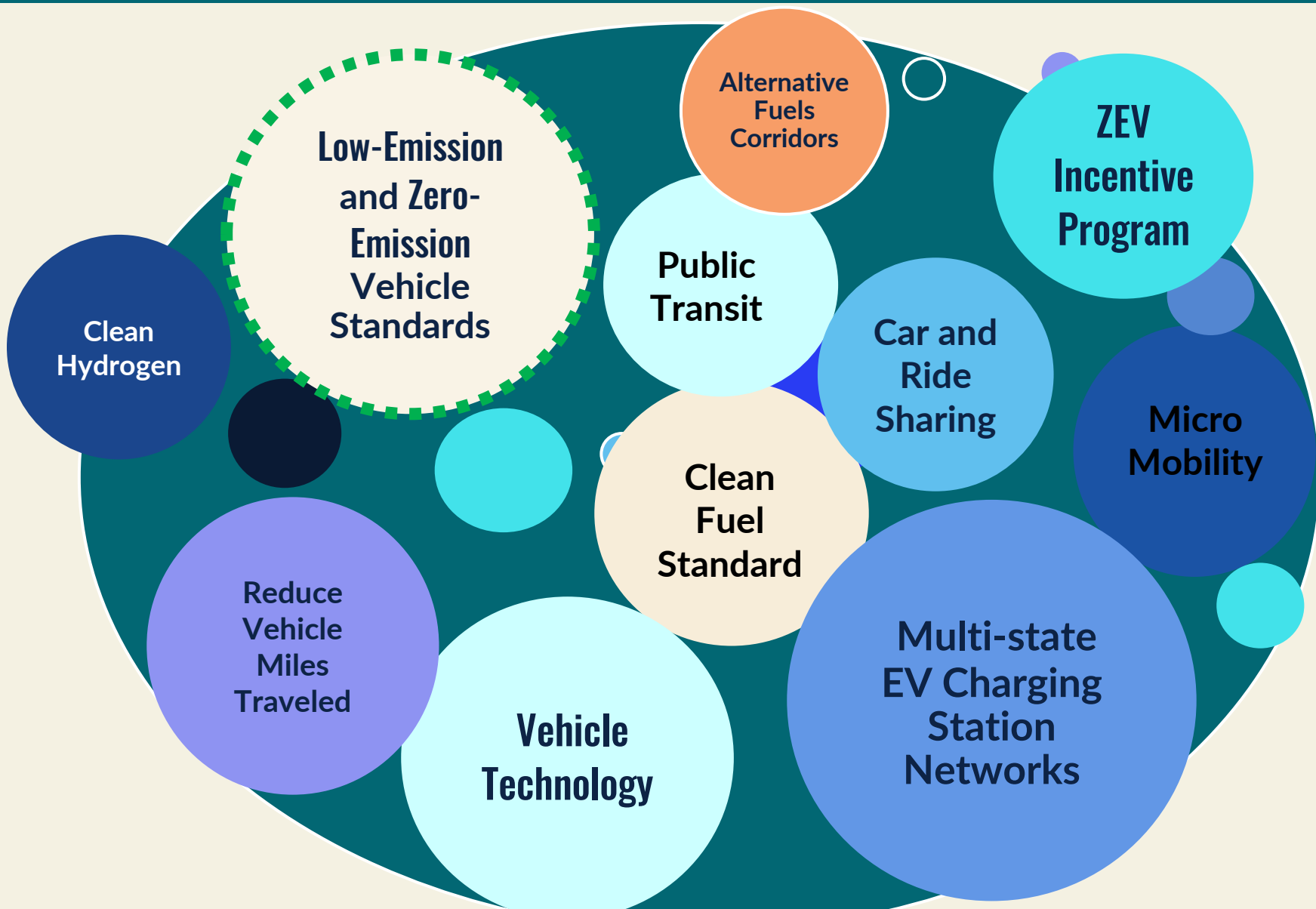
77+ Total  
Chargers

### Map Legend

- Existing (green) = Locations of existing City-owned EV charging stations
- Proposed (blue) = Locations proposed in the Charging and Fueling Infrastructure (CFI) grant application
- Future (orange) = Locations planned to be installed in the next two or three years from the Carbon Reduction Program (CRP) grant award



# 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: December 16, 2023



Rule Becomes Effective December 31, 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>

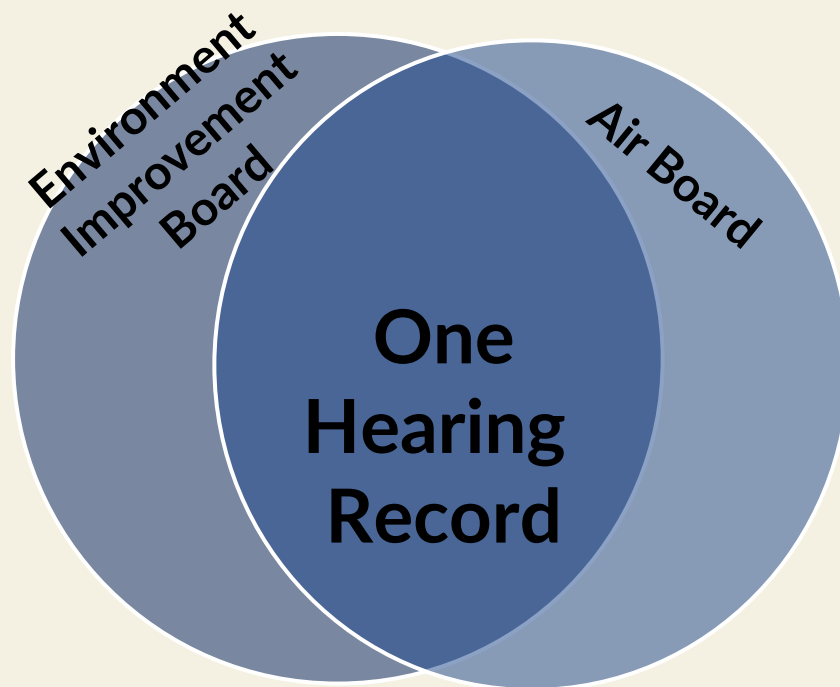
- Public Meeting #3: October 16, 2023, 4:30 pm; International District Public Library Community Meeting Room, 7601 Central Ave NE, Albuquerque
- Because you signed up for this public meeting, you will receive email updates on this rulemaking and future actions
- Invite us to discuss the rules and process with your organization's members
- Follow us on social media @NMEnvDep #IamNMED



# Provide Comments



- Participate in the public meetings
- Submit comments to Board Administrators until the close of the hearing, likely November 15
- Provide oral public comment to the Boards at designated times during the November 13-14 rulemaking hearing



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

Air Quality Control Board:  
[airboard@cabq.gov](mailto:airboard@cabq.gov)  
Environmental Health Department:  
[morgansmith@cabq.gov](mailto:morgansmith@cabq.gov)

# Contact Information

Bonney Hughes, New Mexico  
Environment Department

505.479.2207

[Bonney.hughes@env.nm.gov](mailto:Bonney.hughes@env.nm.gov)



Allen Smith, City of Albuquerque

505.768.2637

[morgansmith@cabq.gov](mailto:morgansmith@cabq.gov)





# Breakout Room Topics – Round 1

## *Temas de la Sala de Grupo – Ronda 1*



- 1) Details and Benefits of Proposed Rules
- 2) Rulemaking Process and Public Commenting
- 3) EV Charging and Fueling Infrastructure
- 4) PNM: Programs, Plans and Emissions Overview
- 5) Electric Vehicles: Costs, Technology, Workforce Development
- 6) Climate Action in New Mexico

- 1) *Detalles y beneficios de las reglas propuestas*
- 2) *Proceso de reglamentación y comentarios públicos*
- 3) *Infraestructura de carga y repostaje de vehículos eléctricos*
- 4) *PNM: Visión general de programas, planes y emisiones*
- 5) *Vehículos eléctricos: costos, tecnología, desarrollo de la fuerza laboral*
- 6) *Acción climática en Nuevo México*



# Breakout Room Etiquette

## Etiqueta en la Sala de Grupo



Reminder: purpose of meeting is for hosts to provide information and answer questions

Each participant:

- 1) will be muted upon entering breakout room
- 2) must raise their hand to ask a question
- 3) must limit question and discussion time with hosts to 2 minutes
- 4) must be courteous to other room participants and hosts

Violation of any of the above will subject a participant to being muted and/or removed from the room

Recordatorio: el objetivo de la reunión es que los anfitriones proporcionen información y respondan a las preguntas.

Cada participante:

- 1) será silenciado al entrar en la sala de grupo
- 2) deberá levantar la mano para hacer una pregunta
- 3) debe limitar el tiempo de preguntas y debate con los anfitriones a 2 minutos
- 4) debe ser cortés con los demás participantes y con los anfitriones

La violación de cualquiera de los puntos anteriores hará que el participante sea silenciado y/o expulsado de la sala.





# Spanish Interpretation

## *Interpretación en Español*



*¿Necesita interpretación en español para una sala de grupo?*

*Si es así:*

- 1) Elija un tema de discusión*
- 2) Dígaselo a los intérpretes*
- 3) Un intérprete le acompañará a su sala elegida*



# Breakout Room Topics – Round 2

## *Temas de la Sala de Grupo – Ronda 2*



- 1) Details and Benefits of Proposed Rules
- 2) Rulemaking Process and Public Commenting
- 3) EV Charging and Fueling Infrastructure
- 4) PNM: Programs, Plans and Emissions Overview
- 5) Electric Vehicles: Costs, Technology, Workforce Development
- 6) Climate Action in New Mexico

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