

# **Community Truck Listening Session**

August 31, 2021

### **Goals of Today**

• Inform attendees on CARB's latest work surrounding cleaning up trucks and transition to zero-emission

 Inform attendees on how to provide input on the proposed Advanced Clean Fleet Regulation

• Listen to concerns or suggestions surrounding trucks



# **Addressing Truck Emissions is Key**

2018 Statewide Diesel Particulate Matter (PM) Emission from Heavy-Duty Trucks

- Darker shades show higher emissions
- Under resourced communities are impacted most





### **Latest Combustion Requirements**

#### • 2018 – Present:

- Stricter emission standards
- Enhanced smoke tests
- Increased onboard diagnostics
- Manufacturer emission standard and testing requirements
- By 2023:
  - New inspection and maintenance rules





### **Latest Zero-Emission Requirements**

#### • 2018 – Present:

- New powertrain certification
- Manufacturer sales percentage requirements
- Required zero-emission phase-in for refrigerated trucks



- By 2023:
  - Required phase in for work trucks, box trucks and tractors



# **Cleaning Up Existing Diesel Trucks**

- New and proposed rules for diesel trucks
  - Increased inspections (like smog checks for heavy-duty)
  - Tightening warranty and smoke test requirements
- Enforcement
  - Reporting requirements
  - Business audits
  - Roadside inspections
  - DMV compliance checks





## **Transition to Zero-Emission**

- Advanced Clean Trucks Regulation
  - Requires manufacturers to sell zero-emission trucks
- Proposed Advanced Clean Fleets Regulation
  - Speeds up purchases of zero-emission trucks and buses
  - Starts with trucks delivering to ports, box trucks, delivery vans
  - 100% zero-emission sales requirement by 2040
- Ensuring success
  - Funding available
  - Recognition for going above and beyond
  - Variety of zero-emission vehicles available





### Proposed Milestones in Advanced Clean Fleet Regulation

- Drayage trucks
  - 2023 Newly registered vehicles must be zero-emission
  - 2035 100% zero-emission operations in intermodal railyards and seaports
- High Priority Fleets
  - 2025 Begin phase-in of zero-emission vehicles by body type and suitability
  - 2035 100% zero-emission for box trucks, vans, buses & yard tractors
- Public fleets
  - 2024 50% of new vehicle purchases must be zero-emission
  - 2027 100% of new vehicle purchases must be zero-emission
- Manufacturers
  - 2040 100% zero-emission vehicle sales requirement





 Share your concerns or suggestions around trucks: <u>freight@arb.ca.gov</u>

- Share feedback on the proposed Advanced Clean Fleet Regulation: <u>zevfleet@arb.ca.gov</u>
- Visit Advanced Clean Fleet Regulation website: <u>https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets</u>



# **Supplemental Slides**



# **Suite of CARB Regulations**

**Supplemental** 



### Proposed Advanced Clean Fleet Regulation High Priority Fleets

- "High-Priority Fleets" must phase-in zero-emission vehicles by body type and suitability
- Who are "High-Priority Fleets"?
  - Private or federal entities with over \$50 million in revenue,
  - Who operate a fleet of more than 50 vehicles,
  - Or dispatches more than 50 vehicles per year.





### Proposed Advanced Clean Fleet Regulation Phase in for High Priority Fleets

Percentage of fleet that must be ZEVs	10%	25%	50%	75%	100%
Box trucks or vans, two-axle buses, yard tractor	2025	2028	2031	2033	2035
Work trucks, day cab tractors, three-axle buses	2027	2030	2033	2036	2039
Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042



### Proposed Advanced Clean Fleet Regulation Drayage Fleets

- 2023 All drayage trucks registering for the first time in the CARB Drayage Truck Registry must be a zero-emission vehicle
- 2035 100% zero-emission operations in intermodal railyards and seaports





#### Supplemental Proposed Advanced Clean Fleet Regulation Public Fleets

- Zero-emission vehicle purchase requirements for city, county, special district, and state agency fleets
- 2024 50% of new vehicle purchases must be zero-emission
- 2027 100% of new vehicle purchases must be zero-emission





# Voluntary Recognition Program in Development

- Recognition for fleets who exceed zero-emission fleet standards
- Recognition for entities that hire fleets who meet or exceed zero-emission fleet standards
- Branding and marketing to accelerate the deployment of medium- and heavy-duty zero-emission vehicles





# Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)

- Point-of-sale discounts to power California communities and drive commercial technology transformation
- 7,000+ clean vehicles funded
- 58% in pollution-burdened communities
- Program website: <u>https://californiahvip.org/</u>





### **Volkswagen Environmental Mitigation Trust**

- Provides ~\$423 million to mitigate the excess emissions caused by Volkswagen's emission testing defeat devices
- Funding focused mostly on "scrap and replace" projects for heavy-duty equipment and trucks
- Program website: <u>https://ww2.arb.ca.gov/our-</u> work/programs/volkswagen-environmental-mitigationtrust-california



#### Proposed Heavy-Duty Inspection and Maintenance Regulation (HDIM)

- Legislative requirement of SB210 to create an inspection program for on-road heavy-duty vehicles
- Regulation is still being finalized, participate to include your feedback
- Program website: <u>https://ww2.arb.ca.gov/our-work/programs/heavy-duty-inspection-and-maintenance-program</u>



# **Transport Refrigerated Units (TRU)**

- TRUs are used to control the environment of temperaturesensitive products transported in trucks, trailer, rail cars, or shipping containers
- Existing regulation requires TRU owners to upgrade to cleaner diesel equipment over time
- Amendments are being developed to transition truck TRUs to zero-emission
- Program website: <u>https://ww2.arb.ca.gov/our-</u> work/programs/transport-refrigeration-unit



# **Advanced Clean Trucks Regulation**

- Manufacturers required to meet ZE percentage milestones for annual sales
- Begins with 2024 model year
- One-time reporting requirement for large entities that operate or dispatch trucks in California
- Program website: <u>https://ww2.arb.ca.gov/our-</u> work/programs/advanced-clean-trucks



### The Governor's Executive Order Targets

### 100% ZEV sales by 2035





CARB