



December 5, 2023  
Agenda Item M2  
File No. 2023-0295

**PRESENTATION ON THE FIRST BIENNIAL STATUS REPORT OUT  
ON ZERO EMISSIONS HEAVY-DUTY TRUCKS**

# Maritime Clean Air Strategy – Health Equity for All



## Heavy-Duty Truck Zero Emission Goals

- **40%** zero emission truck calls by **June 30, 2026**
- **100%** zero emission truck calls by **end of 2030**
- **Develop** a Biennial Status Report by **end of 2023**

# First Biennial Status Report Out

- California Heavy-Duty Truck Regulations
- State of Technology for Zero Emission Trucks
- Truck Activity
- District Zero Emission Truck Initiatives





# California Regulations



## Advanced Clean Truck Regulation (Adopted 2021):

- Requires manufacturers to sell a percentage of trucks in California as Zero emission models

## Advanced Clean Fleet Regulation (Adopted 2023):

- Requires 100% Zero Emission drayage trucks at seaports by the end of 2035
- Some trucks which visit a seaport may have longer regulatory schedules to be Zero Emissions by 2042 (eg, Auto Carriers Trucks)



# State of Technology for Zero Emission Trucks



## Battery Electric Trucks

Early Commercial Status

8 manufacturers with 10 models

Range offers 125 to 500 miles on a single charge

Charging time takes between 30 min to 3.5 hours

Vehicle weight between 21,000 to 29,000 pounds



## Hydrogen Fuel Cell Electric Trucks

Demonstration/Pilot Status

3 manufacturers with 3 models with more coming

Range offers 350 to 500 miles

Refueling takes 15 to 20 minutes

Vehicle weight between 21,000 to 26,000 pounds



# California Truck Population and Activity



## California Zero Emission Truck Population:

Fewer than 200 tractor-trailer trucks statewide

## Zero Emissions



- Total Annual Calls: **4.5M**
- ZE Truck Population: **140**
- ZE Truck Calls: **< 1%**



# Truck Calls | Port of San Diego



## Zero Emissions



- ZE Truck Population: **5**
- ZE Truck Calls: **< 1%**

# Port Zero Emission Truck Initiatives



Incentives



Zero Emission Infrastructure



Technical Assistance



Policy Advocacy

Draft Presentation - Subject to Change





# Port Zero Emission Truck Initiatives

## Incentives



- Coordinated funding incentives with San Diego County Air Pollution Control District
- Programmed \$1M to support acquisition of zero emission trucks



## Zero Emission Infrastructure

- Issued Request for Proposals for an EV Truck Stop
- Signed an MOU with Caltrans
- Collaborating with SANDAG and others on a Regional Zero Emission Blueprint for the County



# Port Zero Emission Truck Initiatives



## Technical Assistance

- Held 4 outreach events at the terminal
- Piloted a technical assistance program
- Participated in Ride and Drive events and a Trucker Roundtable



## Advocating for Policy Goals

- Promoting increased weight limits over the road
- Collaborating with San Diego APCD on an MOU for prioritized funding to support Zero Emission trucks

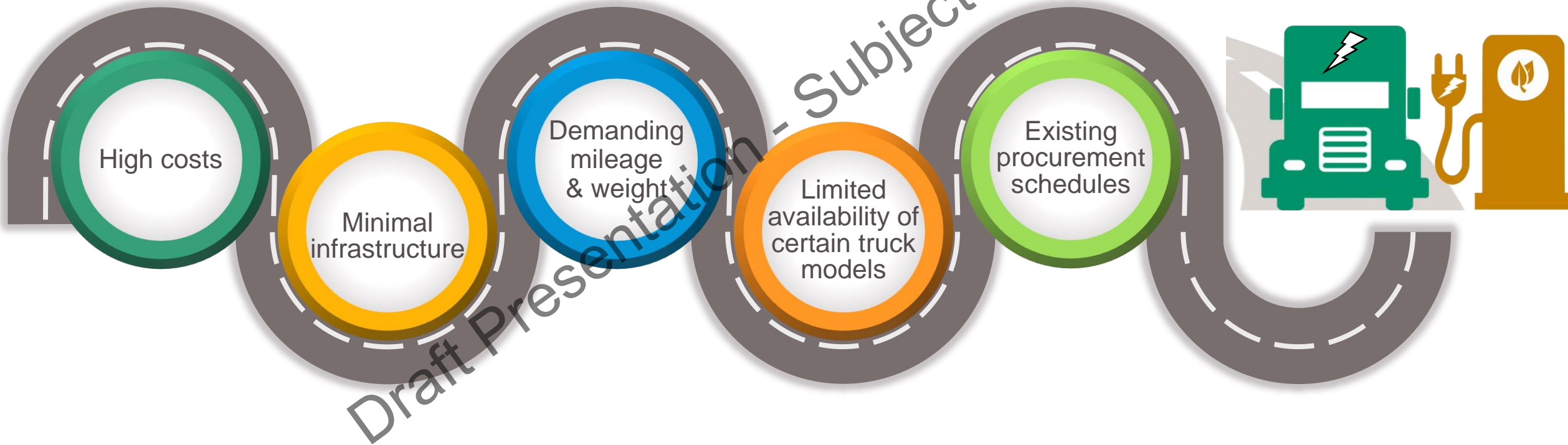


San Diego County  
Air Pollution  
Control District





# Challenges and Opportunities





# Recommendation

RECEIVE THE PRESENTATION AND PROVIDE DIRECTION TO STAFF, ON THE FIRST BIENNIAL STATUS REPORT OUT PURSUANT TO TRUCK OBJECTIVE 1E OF THE MARITIME CLEAN AIR STRATEGY

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