

***CARB Update
for
R2C2
Lunch & Learn***

**Presented by
Sean Edgar**

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Overview (From a Regulatory Geek View)

- Internal Combustion Engine Offerings Are Changing in 2024-2027 (CARB “Omnibus”)
- Update on California Air Resources Board (CARB) Advanced Clean Trucks (“ACT”) and Advanced Fleets Rule (“ACF”)
- Perspective from R2C2 Associate Ashley Porter from TEC Equipment
- Answer your questions

Governor Newsom's Executive Order (2020)



100% ZEV sales by 2035

Full transition to
ZEV short-haul/drayage trucks
by 2035



Full transition to **ZEV buses & heavy-duty long-haul trucks**
by 2045*



Full transition to
ZE off-road equipment
by 2035*

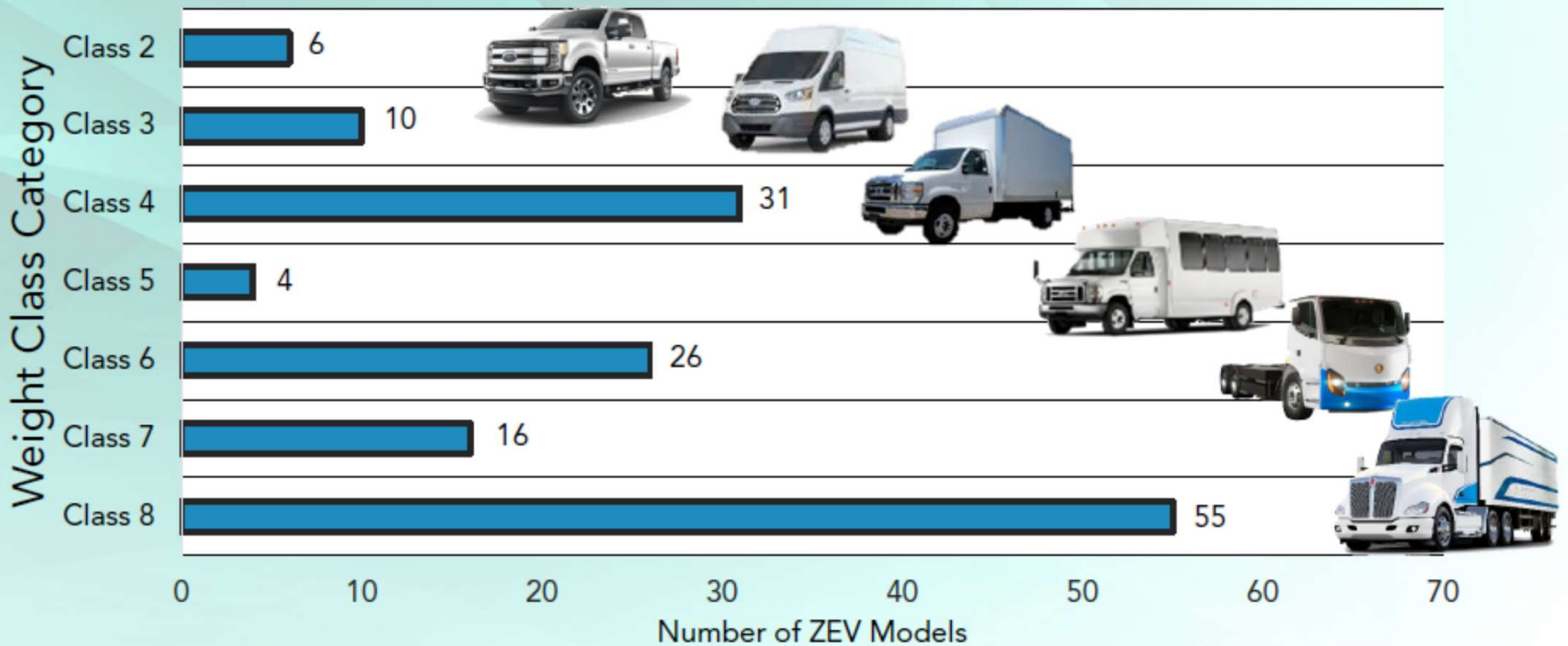
*where feasible

Lower Combustion Truck Standards

- Criteria pollutants (e.g. NO_x & particulate matter)
 - Existing diesel trucks already upgraded to 2010 engines (CARB Truck & Bus Regulation)
 - Heavy-duty Omnibus regulation begins 2024 model year
 - Engine standards, test procedures and other controls
 - Averaging, banking, and trading program
- “Clean Truck Check”/Heavy-duty Inspection and Maintenance Regulation
- Greenhouse gas emissions
 - Phase 1, Phase 2 and Phase 3 Greenhouse Gas Standards (EPA)
 - CARB’s Low Carbon Fuel Standard lowers carbon intensity of transportation fuels (11/8/24 hearing)

CARB'S ACT Requires Manufacturing of Zero Emission Truck Models (>8,500 lbs GVWR)

ZEV Models in US



135 models already delivered to fleets

148 different models available to be ordered/pre-ordered

More than 500 ZEV models available worldwide

CARB's ACF & High Priority Fleets

Affected businesses

Fleets with 50+ vehicles, including common ownership and control

Fleets with >\$50 million in annual revenue

Federal government fleets

Entities that hire or dispatch fleets

Affected vehicles

Class 2b-8 vehicles

Off-road yard tractors

Light-duty delivery vehicles



Option 1: Model Year Schedule

Legacy Truck Engine Year	18 years
2010	2028
2011	2029
2012	2030
2013	2031
2014	2032
2015	2033
2016	2034
2017	2035
2018	2036
2019	2037
2020	2038
2021	2039
2022	2040
2023	2041
2024	2042

- California fleet
 - All additions must be ZEVs
 - Legacy trucks removed after end of useful life
- Tractors
 - Earlier of 18 years or
 - End of year when odometer exceeds 800,000 miles
 - No less than 13 years
- Yard trucks and all other vehicles
 - 18 years

Option 2: ZEV Milestone Phase-in

- Open to High Priority fleets
- Must meet ZEV milestones as a percent of total fleet
- Flexibility to add new ICE vehicles that are California certified or used ICE vehicles with 2010 or newer model year

Zero-Emission Fleet Percentage	10%	25%	50%	75%	100%
Group 1: <u>Box trucks</u> , vans, 2-axle buses, yard trucks, light-duty package delivery vehicles	2025	2028	2031	2033	2035
Group 2: Work trucks, <u>day cab tractors</u> , 3-axle buses	2027	2030	2033	2036	2039
Group 3: Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042

Work truck means any single-unit truck that is not a box truck, van, bus, or specialty vehicle

USEPA Waiver/Federal Clean Air Act

- CARB is required to obtain permission from the USEPA to enforce state mobile source rules (“Waivers”)
- There are eight waivers currently awaiting action by USEPA
- ACF and Omnibus require a waiver
- Other states can “opt-in” to “identical” standards after federal waiver approval
- The outgoing Biden Administration may take action on these and clear the way for enforcement in CA and “opt-in” by like minded states

California Truck Regulations Travel:

Section 177 of the Clean Air Act allows states to adopt California motor vehicle standards

Adopted CARB Regulations

Omnibus (IC Engines) – OR, WA, MA

Emissions Warranty – OR & NJ

Advanced Clean Trucks - 10 states

Medium- Heavy-duty ZEV Commitments

17 states and DC

Province of Quebec, Canada



Ashley Porter

***TRUCK DEALER'S
VIEWPOINT***

Resources

1. CARB ACF Language/Fact Sheets: <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>
2. CARB ACF Enforcement Notice: https://ww2.arb.ca.gov/sites/default/files/2023-12/231228acfnotice_ADA.pdf
3. CARB “Clean Truck Check” Information: <https://ww2.arb.ca.gov/our-work/programs/heavy-duty-inspection-and-maintenance-program>
4. CleanFleets.net Services: <https://cleanfleets.net/#home>

Contact Information

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