



Proposed Advanced Clean Fleets (ACF) Regulation Provisions Workgroup

July 26, 2022

Today's Outline

- Background
 - High Priority and Federal (HPF) Fleets
 - State and Local Government Fleets
- Draft exemptions and process
- Zero-emissions vehicle (ZEV) availability
- Next steps

Today's Meeting Materials

- On "Meetings and Events" page on Advanced Clean Fleets (ACF) webpage (<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/advanced-clean-fleets-meetings-events>)
- Submit comments to informal comment docket (https://www.arb.ca.gov/lispub/comm2/bcsubform.php?listname=acf-comments-ws&comm_period=1)
 - Informal comment docket available until mid-August. Formal comment docket opens early September
 - Early feedback on concepts is welcome



Background

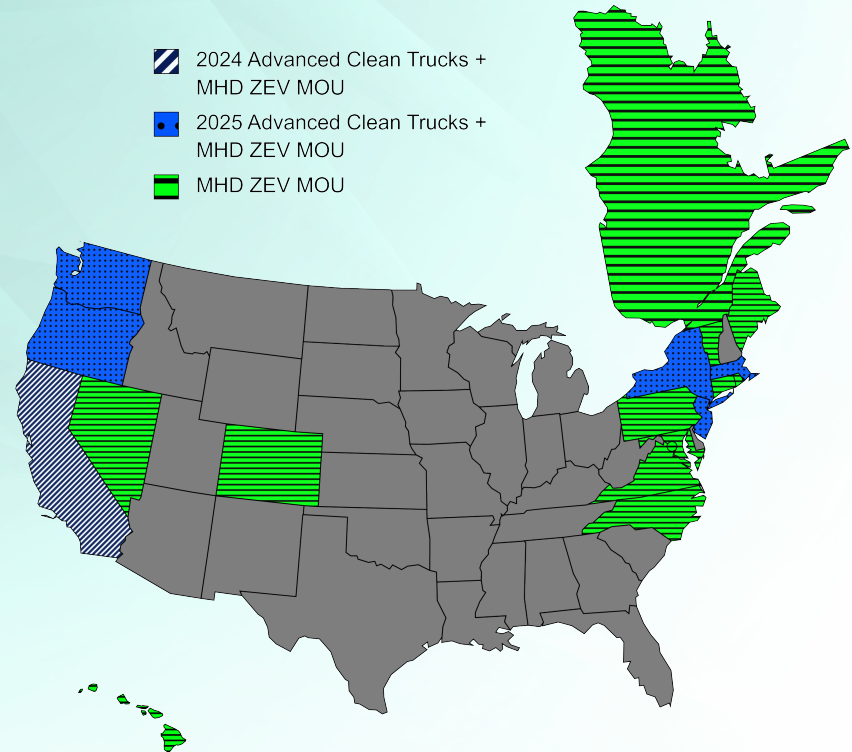
Advanced Clean Trucks (ACT)

- Major manufacturers must sell ZEVs as a percentage of sales*
- Credit for sales start in 2021
- Minimum tractor sales
- Flexibility to shift sales between categories
- Approved June 2020

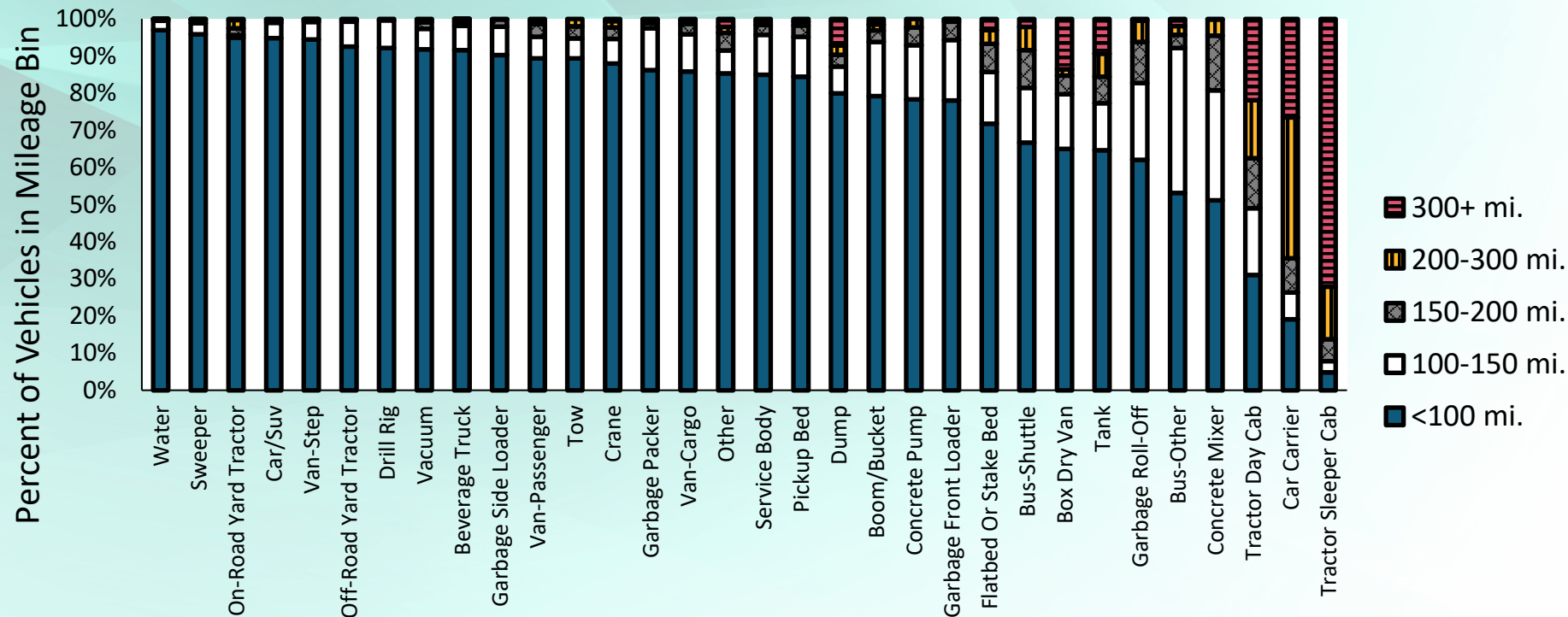
Model Year (MY)	Class 2b-3	Class 4-8	Class 7-8 Tractors
2024	5%	9%	5%
2025	7%	11%	7%
2026	10%	13%	10%
2027	15%	20%	15%
2028	20%	30%	20%
2029	25%	40%	25%
2030	30%	50%	30%
2031	35%	55%	35%
2032	40%	60%	40%
2033	45%	65%	40%
2034	50%	70%	40%
2035+	55%	75%	40%

California is not Alone...

- Section 177 of the Clean Air Act allows states to adopt California motor vehicle standards
- Adopted ZEV regulations
 - Advanced Clean Cars - 12 states
 - Advanced Clean Trucks - 6 states
- Medium- and heavy-duty ZEV commitments
 - 17 states and DC
 - Province of Quebec, Canada



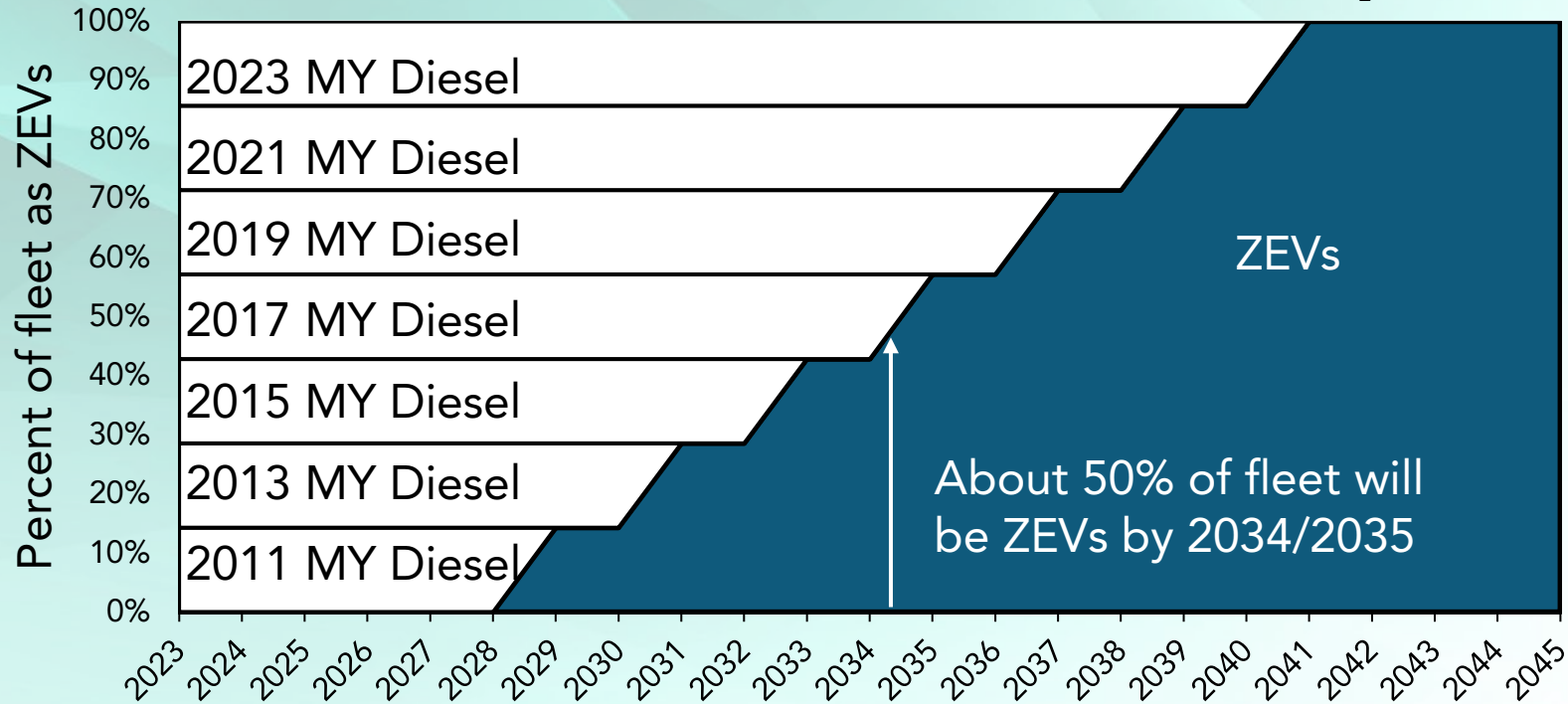
Most Trucks Travel <100 Miles Per Day



Model Year Schedule

- Starting January 1, 2024 all additions to the California fleet must be ZEV
- Remove existing trucks at the end of their useful life
 - At 800,000 miles or 18 years, no less than 13 years
- January 1 compliance date
- Report by February 1 annually
- Provisions allow for limited exceptions

Model Year Schedule Example



EX: 140 truck fleet, 18-year average replacement cycle, purchase 20 new vehicles every 2 years

ZEV Milestones (Option)




- Meet fleet milestones regardless of year and mileage
- Compliance date January 1
- Report by February 1 annually
- Provisions allow for limited exceptions



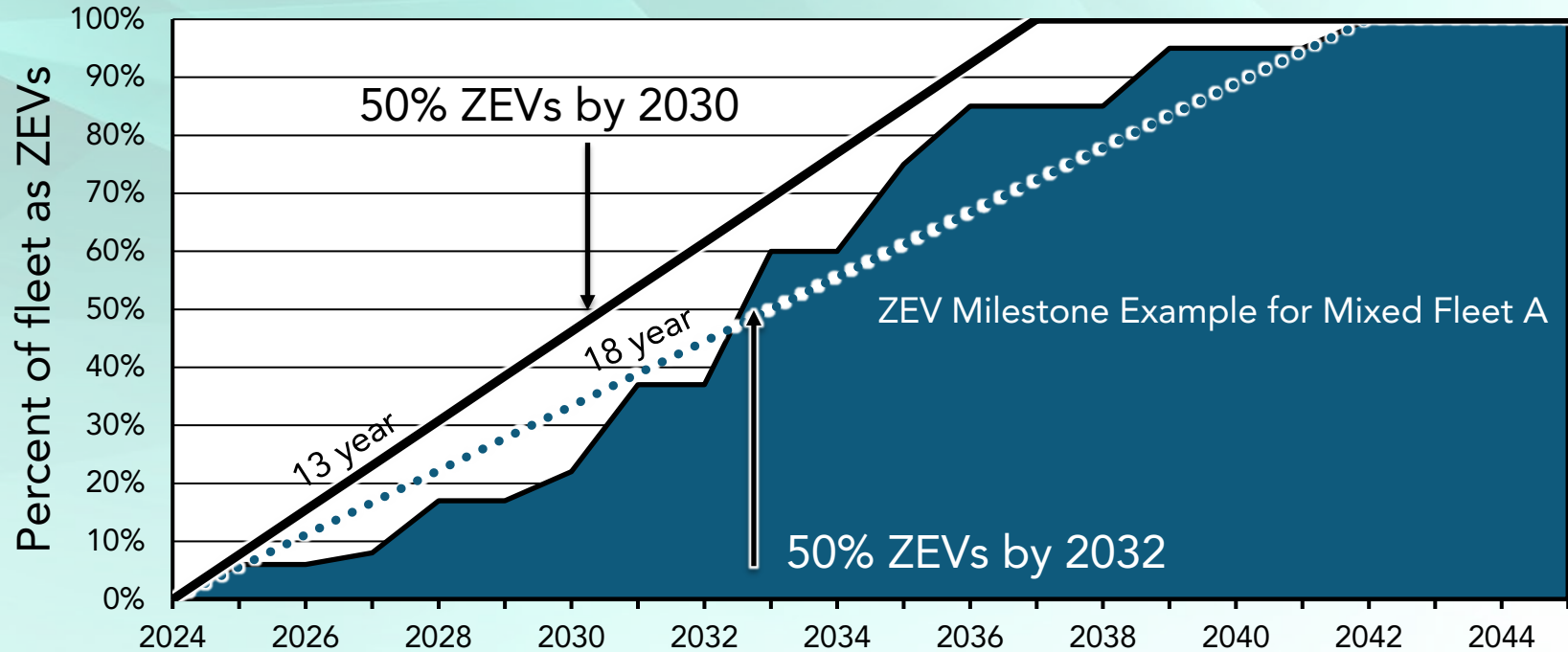
ZEV Milestones Fleet Percentage	10%	25%	50%	75%	100%
Box trucks, vans, two-axle buses, yard trucks, light-duty package delivery vehicles	2025	2028	2031	2033	2035
Work trucks*, day cab tractors, three-axle buses	2027	2030	2033	2036	2039
Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042

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

ZEV Milestone Example for Mixed Fleet A

Vehicle Type	# of Vehicles	ZEVs in 2025	ZEVs in 2029	ZEVs in 2033	ZEVs in 2037	ZEVs in 2041	ZEVs in 2045
Box trucks, vans, two-axle buses, yard trucks 	60	6	15	45	60	60	60
Work trucks, day cab tractors, three-axle buses 	20	0	2	10	15	20	20
Sleeper cab tractors and specialty vehicles 	20	0	0	5	10	15	20
ZEV Milestones	100	6	17	60	85	95	100

Example for Mixed Fleet A

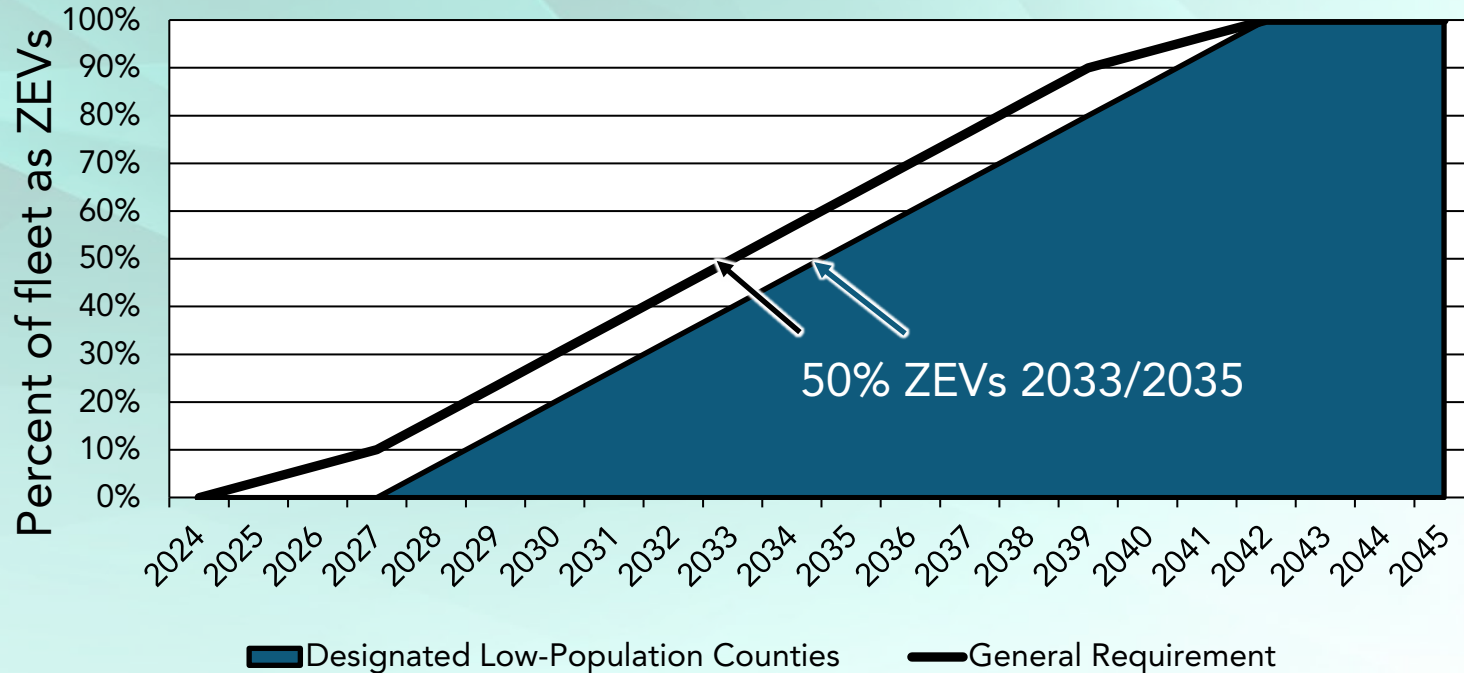


State and Local Government Fleets

- Percent of vehicle additions to the fleet must be ZEV
 - 50 percent ZEV additions from January 1, 2024-2026
 - Except for fleets in designated low population counties
 - 100 percent new additions starting January 1, 2027
- Report by April 1 annually
- Provisions allow for limited exceptions



ZEV Purchases Example



EX: 100 truck fleet, 15-year average replacement cycle



Exemptions and Extensions

Goals for Rule Provisions Discussion

- Match ZEV suitability with fleet needs
- Identify clear objective criteria and simple process
- Minimize administrative burden
- Protect against misuse
- Hold ZEVs to same standards as ICE vehicles
- Encourage fleets to act early, and plan ahead

Key Provisions Summary

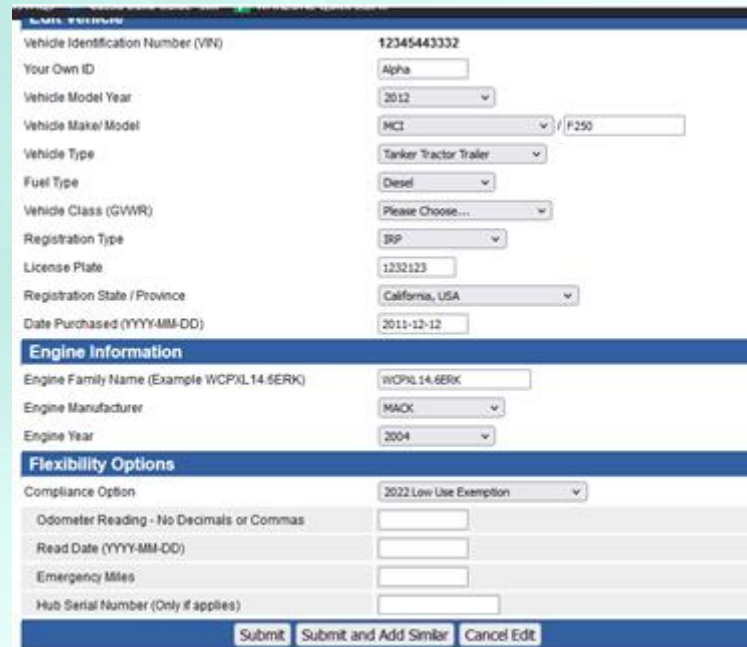
Provision	State and Local Government	HPF ZEV Milestones	HPF Model Year Schedule
Backup Vehicles	Can add ICE as a backup, and can exclude emergency miles	Exclude existing ICE vehicle from milestones, can exclude emergency miles	Keep existing ICE vehicle beyond useful life, can exclude emergency miles
Vehicle Delivery Delay	Not needed because is compliance based on purchase date	May continue to use existing ICE and treat it as a ZEV	May use existing ICE truck beyond useful life
Infrastructure Construction Delay	Allows for ZEV order to be delayed	Allows for ZEV order to be delayed	Allows for ZEV order to be delayed
Declared Emergency Response	Not needed because no limits on vehicle usage	Temporary exemption for emergency response	Temporary exemption for emergency response
Mutual Aid	Exempt up to 25% of fleet from being ZEVs	Exempt up to 25% of fleet from being ZEVs	Exempt up to 25% of fleet from being ZEVs
Daily Usage	Duty cycle exemption for available ZEVs	Duty cycle exemption for available ZEVs	Duty cycle exemption for available ZEVs
ZEV Unavailability	Allows for ICE purchases if vehicle configuration on list	Allows for ICE purchases if vehicle configuration on list	Allows for ICE purchases if vehicle configuration on list

Backup Vehicle Exemption

- Allows backup vehicles used less than 1000 miles per year to be excluded from annual ZEV requirements
 - Excludes miles in support of declared emergency

Backup Vehicle Process

- Report vehicles as a “backup” during open reporting
 - Enter odometer reading
- Report odometer readings annually
 - Report annual emergency miles if applicable



The screenshot shows a web form titled "Backup Vehicle" with a blue header. The form is divided into several sections with blue headers: "Vehicle Information", "Engine Information", and "Flexibility Options".

Vehicle Information

- Vehicle Identification Number (VIN): 12345443332
- Your Own ID: Alpha
- Vehicle Model Year: 2012
- Vehicle Make/Model: MC1 / P250
- Vehicle Type: Tanker/Tractor/Trailer
- Fuel Type: Diesel
- Vehicle Class (GVWR): Please Choose...
- Registration Type: BIP
- License Plate: 1232123
- Registration State / Province: California, USA
- Date Purchased (YYYY-MM-DD): 2011-12-12

Engine Information

- Engine Family Name (Example WCP/L14.6ERK): WCP/L14.6ERK
- Engine Manufacturer: MAOX
- Engine Year: 2004

Flexibility Options

- Compliance Option: 2022 Low Use Exemption
- Odometer Reading - No Decimals or Commas: [text input]
- Read Date (YYYY-MM-DD): [text input]
- Emergency Miles: [text input]
- Hub Serial Number (Only if applies): [text input]

At the bottom of the form are three buttons: "Submit", "Submit and Add Similar", and "Cancel Edit".

Vehicle Delivery Delay

- Addresses situations where ZEV or ZE powertrain lead time or delivery delays are longer than one year
- Purchase order must be for immediate delivery and 1 year in advance of next deadline

Vehicle Delivery Delay Process

- Email TRUCRS@arb.ca.gov during annual reporting
 - VIN of existing vehicle to be replaced
 - Attach copy of purchase order
- Executive Officer will
 - Approve within 30 days and will update vehicle compliance status in fleet owner's account
- Report new ZEV when received and remove existing truck from California fleet

Infrastructure Construction Delay

- Allows a one-year extension to delay delivery of ordered ZEVs due to unexpected infrastructure delay
- ZEV orders and ZEV refueling station construction must begin 1 year prior to upcoming compliance deadline
- Eligible delays include
 - Change of a general contractor, delays for obtaining power from a utility, delays due to unexpected safety issues, discovery of resources described in the California Environmental Quality Act, or natural disasters

Infrastructure Construction Delay Process

- Email the following to TRUCRS@arb.ca.gov:
 - Letter from responsible official
 - With explanation of reason for delay
 - Why retail infrastructure could not be used by the fleet
 - Estimated completion date
 - Supporting documentation of reason for delay from 3rd party
 - Copy of executed contract for infrastructure installation
 - Copy of executed ZEV purchase order
- EO will respond within 30 days of receiving complete application package if all conditions met and update fleet owner account
- Report ZEVs when received

Declared Emergency Response

- Temporarily exempts existing ICE vehicles when supporting a declared emergency
 - Exclude emergency mileage if using back-up vehicles
 - Can bring in out-of-state vehicles without changing compliance
- Must be dispatched by local, state, federal, or other responsible emergency management entity in support of a declared emergency event

Declared Emergency Response Criteria and Process

- No reporting or CARB approval required to ensure timely emergency response
- Fleet owners must keep records only for ICE vehicles that would otherwise be out of compliance
- Track emergency mileage and report emergency miles if used back-up vehicles during annual reporting

Mutual Aid Exemption

- Is a ZEV purchase exemption to support declared emergency events outside normal service territory
- Must have mutual aid agreement in place
- 75 percent of fleet must be ZEV or NZEV
- Applies to vehicles with GVWR >14,000 lbs. except for pickups, two-axle buses, box trucks, vans, and tractors
- Must show mobile fueling options cannot refuel ZEV from 10 to 80 percent capacity within 1 hour

Mutual Aid Process

- Email the following to TRUCRS@arb.ca.gov:
 - Letter explaining reason for exemption request with information about ICE vehicle to be purchased
 - Include information about charging speed for the comparable ZEVs and compatible mobile fueling options
 - Include copy of mutual aid agreement
- EO will respond within 30 days of receiving complete application package if all conditions met

Daily Usage Exemption

- Allows for an ICE vehicle purchase exemption for up to one year for a given vehicle configuration if all available ZEVs cannot meet the fleet's daily duty-cycle
- Exemption limited to vehicles with GVWR >14,000 lbs.
- 10 percent of fleet must already be ZEVs
- Not applicable if NZEV or hydrogen fuel cell vehicles of needed type are commercially available
- Sunsets for vehicle categories when:
 - Class 7 or 8 tractors or 3-axle buses have equivalent to 500 mile range
 - Class 4 through 8 have equivalent of 250 mile range

Daily Usage Criteria

- Approved if comparable ZEV with highest rated capacity cannot meet maximum needed range
 - Fleet data must show that comparable ZEVs cannot meet fleet needs at least 4 out of 30 consecutive workdays
 - Vehicle energy usage data may be used in lieu of mileage range

Daily Usage Application Process

- Submit the following by email to TRUCRS@arb.ca.gov:
 - Identify configuration of ICE vehicle to be replaced and equivalent available ZEV with highest rated miles
 - ZEV performance data may be submitted in lieu of rated range
 - Daily usage report for all ICE vehicles of same weight class and configuration for a 30-day consecutive period within the last year
 - Demonstrate the daily range
 - Description of the following:
 - Daily assignments or routes
 - Why available ZEVs could not be fueled during the workday at the depot, within 1 mile of routes where ZEV fueling is available, and why opportunity fueling could not be used during driver rest breaks
- EO will respond within 30 days of receiving complete application package if all conditions met

Mileage Determination Sample

- 30 consecutive days of data for existing vehicles of needed configuration from within last 12 months
- Identify lowest mileage value for each day
- Remove 3 highest values
- Compare ZEV mileage to next highest value

Example Daily Usage Report

- Fleet data shows highest remaining mileage of 55 in the square
- Comparable ZEV box truck has a 160-mile range
- Shows the ZEV mileage is suitable

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Box Truck 1	45	100	50	65	50	50	50	30	50	50	100	50	50	60	60	60	120	100	90	50	50	100	50	50	50	45	50	100	50	50
Box Truck 2	55	50	55	50	65	50	50	50	50	50	50	100	30	60	55	55	100	75	80	50	50	50	50	50	100	50	50	50	45	50
Box Truck 3	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	100	75	75	75	100	75	75	75	75	75	75	75	75	75
Box Truck 4	50	50	30	150	50	50	50	50	100	100	50	150	50	55	55	55	150	50	80	150	45	50	100	50	150	50	50	50	50	50
Box Truck 5	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Lowest Daily Mi.	45	50	30	50	50	50	50	30	50	50	50	50	30	55	55	55	80	50	50	50	45	50	50	50	50	45	50	50	45	50

Rental Vehicle Provision

- Applies to rental fleets using the ZEV Milestones option
- Provides smooth transition to ZEVs by 2035 for highly transient interstate rental vehicles
- Rental fleet owners may exclude individual transient interstate rental vehicles from the ZEV milestone calculations and meet milestones based on the average
- Annual updates during annual reporting

Rental Vehicle Criteria and Process

- Must be an interstate rental fleet owner
- Take 4 quarterly snapshots of the number of rental vehicles in California that are:
 - Under contract to leave California
 - Under contract to be picked up and dropped off in California
 - In California and not under contract
- Alternatively, use telemetry data to show number of rental vehicles in California on snapshot dates
- Annually report non-rental California fleet and calculated average annually

ZEV Unavailability Exemption and Process

- Addresses when ZEVs/NZEVs are not commercially available
- CARB hosts a list of vehicle configurations that are not commercially available as ZEVs/NZEVs
- Fleet owners check the list and purchase ICE vehicles on the list, report when they receive vehicle, keep records
- No separate CARB review/approval needed

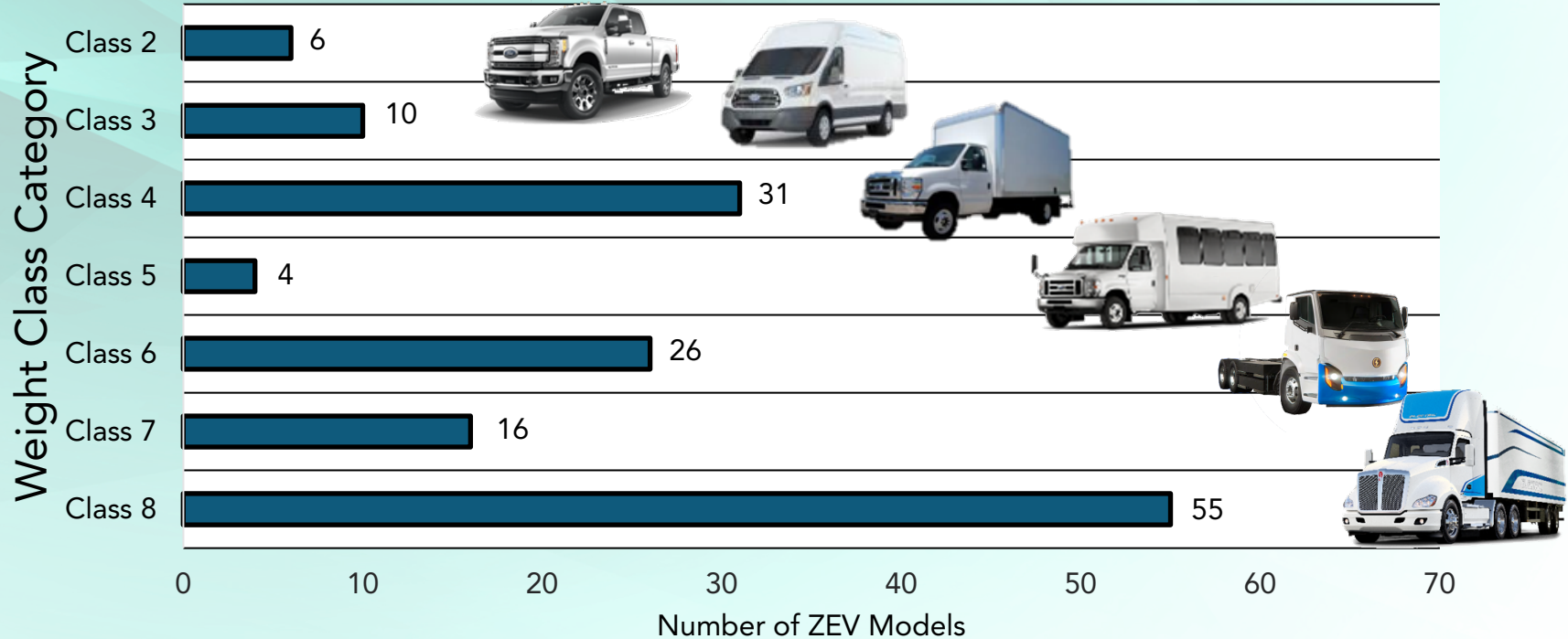


What Vehicles Are Not Available As A ZEV

ZEV Availability Discussion

- Complete vehicles
 - Already available as ZEVs for common vehicle type such as pickups, tractors, vans, 2-axle buses
 - Uncommon or specialized vehicles to be determined
- Cab and chassis
 - ZEVs already available in every weight class
 - Each chassis can be upfit with several bodies
 - Need to determine which chassis/bodies can be upfit
- New ZE drivetrain conversions
- Some large fleets make custom designs and orders

ZEV Models in US



135 models already delivered to fleets, 148 different models are available to be ordered/pre-ordered,

ZE Tractor Commercial Availability

Available Today

- BYD 8TT
- Freightliner eCascadia
- Kenworth T680E
- Lion Electric LION8
- Nikola TRE
- Peterbilt 579
- SEA Cascadia
- Volvo VNR Electric



2022

- Hyundai XCIENT
- XOS HDXT

2023

- Nikola One/Two
- Tesla Semi

Class 2 - 3



BrightDrop Zevo
250 Mi Range
Available



FORD T350 Cutaway
126 Mi Range
Available



FORD T350 Cargo Van
126 Mi Range
Available



FORD F150 Lightning
230 Mi Range
Available



GMC Hummer EV¹
350 Mi Range
Available



Lightning Electric Cargo
170 Mi Range
Available



Rivian R1T
300 Mi Range
Available

Class 4 - 7



BYD 6F
124-155 Mi Range
Available



BYD 6R
125 Mi Range
Available



Envirotech Cutaway
170 Mi Range
Available



Envirotech Logistic Van
170 Mi Range
Available



Envirotech Urban Truck
170 Mi Range
Available



Freightliner Custom
Chassis MT50e
170 Mi Range
Available



GreenPower EV Star
150 Mi Range
Available



Kenworth K270E/K370E
200 Mi Range
Available

Class 4 - 7



Lightning eMotors 6500XD
80-130 Mi Range
Available



Lightning eMotors E-450
Box Truck
80-120 Mi Range
Available



Lightning eMotors F-53/F-59
110-170 Mi Range
Available



Lightning eMotors E-450
130 Mi Range
Available



Lion Lion6
180 Mi Range
Available



Motiv Epic F-59
105 Mi Range
Available



Motiv Epic E-450
105 Mi Range
Available



Motiv Epic E-450
Service Truck
105 Mi Range
Available

Class 4 - 7



Optimal EV E1
125 Mi Range
Available



Peterbilt 220 EV
100-200 Mi Range
Available



Phoenix ZEUS 500
70-160 Mi Range
Available



SEA Electric MD Chassis
170-200 Mi Range
7 Models Available



SEA Electric MD Cutaways
170-200 Mi Range
4 Models Available



SEA Electric MD Straight
200 Mi Range
8 Models Available



Volvo 4x2 Straight
150 Mi Range
Available



Xos Delivery Van
120-150 Mi Range
Available



Xos CC Truck
120-150 Mi Range
Available

Class 8 – Yard Trucks



BYD 8Y
10+ Hour Range
Available



Kalmar Ottawa T2E+
8-20 Hour Range
Available



Lonestar SV S12, S22
12-22 Hour Range
Available



OrangeEV
24 Hour Range
Available

Class 8



Lion Lion8 Straight
170 Mi Range
Available



Lion Lion8 Refuse
170 Mi Range
Available



Lion Lion8 Bucket
130 Mi Range
Available



Mack LR Electric
100 Mi Range
Available



Peterbilt 520 EV
100 Mi Range
Available



SEA Econic EV
Available



SEA M2 106 EV
Available



Volvo VNR Electric 6x4
190 Mi Range
Available

Class 8 Tractors



BYD 8TT
125 Mi Range
Available



Freightliner eCascadia
250 Mi Range
Available



Kenworth T680
150 Mi Range
Available



Lion Lion8 T
260 Mi Range
Available



Nikola TRE BEV
350 Mi Range
Available



Peterbilt 579 EV
150 Mi Range
Available



SEA Cascadia EV
230 Mi Range
Available

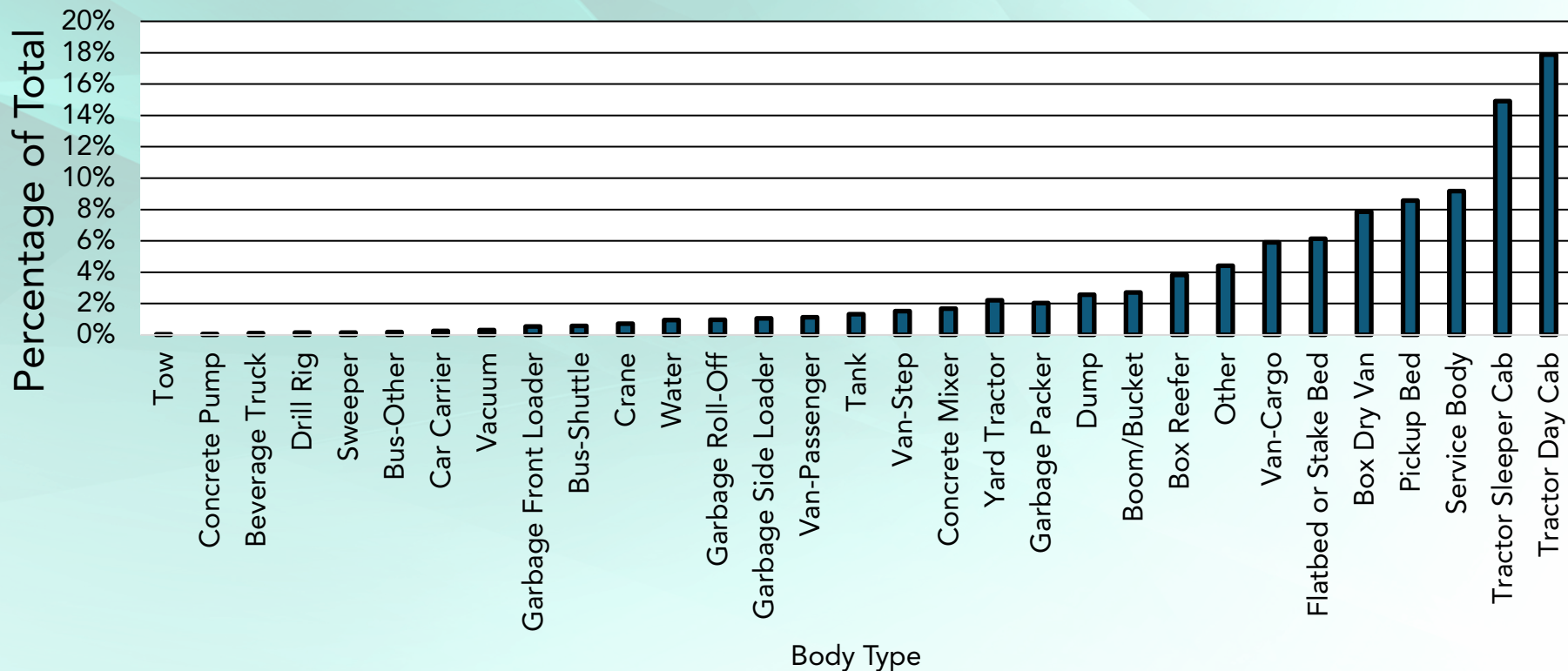


Volvo VNR Electric
175-275 Mi Range
Available in 4x2,
6x2 and 6x4
configurations

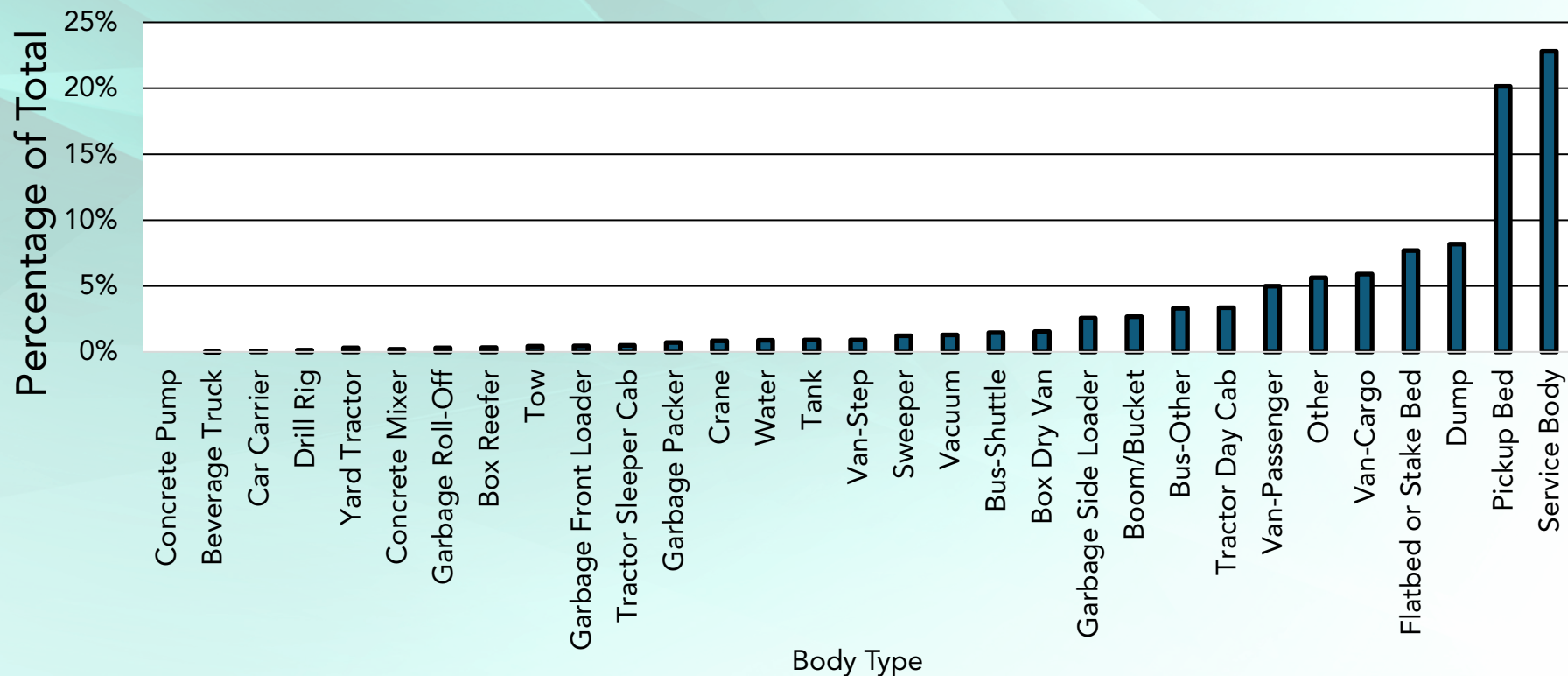
Same ZEV Chassis with Multiple Configurations



Truck Types Owned by Commercial Fleets



Truck Types Owned by Public Fleets



Exempt From Regulation

- School buses
- Dedicated snow removal vehicles
- Heavy cranes
- Two-engine trucks except two engine street sweepers and workover rigs



Example Flatbed Trucks



Flatbed Truck Chassis



Flatbed Hay Truck



Flatbed Roll-off Truck



Flatbed Stake Truck



Flatbed - Attenuator Truck

Tractor Trucks



Sleeper Cab



Conventional Day Cab



Cab Over Day Cab



Reefer Trailer



Curtain Side Trailer



Tank Trailer



Drayage Trailer



Bottom Dump Trailer



Beverage Trailer



Lowboy Trailer



Flatbed Trailer



Dry Van Trailer



End Dump Trailer



ZEV Availability/Unavailability

Vehicle Configuration	PTO	Certification	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
Bus - School (Exempt)	N	Complete	TBD	TBD	Available	Available	Available	Available	Available
Bus - Motorcoach	N	Complete	--	--	--	N/A	Available	Available	Available
Bus - Shuttle	N	Complete	--	--	Available	Available	Available	Available	--
Light-Duty Package Delivery	N	Complete	Available	--	--	--	--	--	--
Sweeper (1 Engine or 2 Engine)	Y	Complete	--	--	Available	Available	Available	--	--
Van - Step	N	Complete	--	Available	Available	Available	Available	Available	Available
Van - Cargo	N	Complete	Available	Available	Available	--	--	--	--
Van - Passenger	N	Complete	Available	Available	--	--	--	--	--
Pickup Truck	N	Complete	Available	Available	Available	--	--	--	--
Tractor - Day Cab City (4x2)	N	Complete	--	--	--	--	--	Available	Available
Tractor - Day Cab Over the Road (6x)	N	Complete	--	--	--	--	--	Available	Available
Tractor - Sleeper Cab Over the Road	N	Complete	--	--	--	--	--	Available	Available
Tractor - Yard Tractor	N	Complete	--	--	--	--	--	--	Available
Tractor - Dump / Construction/Ag	Y	Complete	--	--	--	--	--	TBD	TBD
Tractor - Heavy Haul	N	Complete	--	--	--	--	--	--	TBD
Tractor - Toter Truck	N	Complete	--	--	--	--	--	TBD	TBD
Tractor - Cab Over	N	Complete	--	--	--	--	--	Available	Available
Hay Squeeze	N	Complete	--	--	Unavailable	Unavailable	Unavailable	--	--
Car Carrier	Y	Complete/Upfit	--	--	--	--	TBD	TBD	TBD
Concrete Mixer	Y	Complete/Upfit	--	--	--	--	--	TBD	TBD
Concrete Pump	Y	Complete/Upfit	--	--	--	--	--	TBD	TBD

Available: Configuration is available for order, has confirmation of an order, or has a confirmed delivery to a customer

To Be Determined (TBD): More information is needed to determine if configuration is available for order

Unavailable: Configuration is not currently available as a ZEV and is highly unlikely to electrify in the near future

--: Configuration does not typically exist within the indicated class

ZEV Availability/Unavailability

Vehicle Configuration	PTO	Certification	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
Cab and Chassis	N	Cab and Chassis	Available	Available	Available	Available	Available	Available	Available
Armored Truck	N	Cab and Chassis	--	--	--	TBD	Available	TBD	TBD
Flatbed Fixed (Stake)	N	Cab and Chassis	--	--	Available	Available	Available	Available	TBD
Flatbed Tilt (Dump, Roll Off, Retriever)	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Auger - Digger Derrick	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Boom Truck (Grapple, Crane)	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Box Truck (Shredder, Reefer, Dry Van)	Y/N	Cab and Chassis	--	--	Available	Available	Available	Available	--
Bucket Truck	Y	Cab and Chassis	--	--	TBD	TBD	Available	Available	TBD
Car Hauler	Y	Cab and Chassis	--	--	--	--	TBD	TBD	TBD
Crane Truck	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Dump Truck	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tank - Fuel Truck / Lube Truck	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tank - Septic Truck	N	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tank - Water Truck	N	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tank - Vacuum Truck	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tank - Spreader/Other	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Garbage Packer - Rear Loader	Y	Cab and Chassis	--	--	--	--	Available	Available	Available
Garbage Packer - Front Loader	Y	Cab and Chassis	--	--	--	--	TBD	TBD	TBD
Garbage Packer - Side Loader	Y	Cab and Chassis	--	--	--	--	Available	Available	Available
Service/Utility Truck	Y	Cab and Chassis	--	Available	Available	Available	Available	Available	Available
Self Loading (Grapple, Crane, Hooklift, Knuckleboom)	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tow Truck - Roll Back	Y	Cab and Chassis	--	--	TBD	TBD	TBD	TBD	TBD
Tow Truck - Wrecker	Y	Cab and Chassis	--	TBD	TBD	TBD	TBD	TBD	TBD

Available: Configuration is available for order, has confirmation of an order, or has a confirmed delivery to a customer

To Be Determined (TBD): More information is needed to determine if configuration is available for order

Unavailable: Configuration is not currently available as a ZEV and is highly unlikely to electrify in the near future

N/A: Configuration does not typically exist within the indicated class

ZEV Unavailability List Criteria

- ICE vehicle of same type must be available
- Vehicles with GVWR <14,000 lbs. excluded
 - Pickups, two-axle buses, box trucks, vans, and tractors do not need to be included because they are already available
- Manufacturer determines chassis not compatible with body or configuration
- Body cannot be put on safely by any authorized installer

Process to Add Vehicles to CARB List

- Submit the following by email to TRUCRS@arb.ca.gov:
 - Information about commercially available ICE vehicle needed
 - Signed statements (for chassis in same vehicle class and next one up)
 - Manufacturers – available ZEV chassis not compatible with needed configuration
 - Body installers – each authorized installer must attempt and fail for safety reasons to install needed body on ZEV chassis
- EO will add to the list within 30 days of receiving complete application package if all conditions met
- Vehicles come off list 6 months after commercially available

Regulation Resources

- Informal comments can be submitted to CARB through a [comment docket](https://www.arb.ca.gov/lispub/comm2/bccommlog.php?listname=acf-comments-ws) located on CARB's website.
(<https://www.arb.ca.gov/lispub/comm2/bccommlog.php?listname=acf-comments-ws>)
- Workshop information including this presentation and a recording of this webinar can be found on [CARB's website](https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/advanced-clean-fleets-meetings-events).
(<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/advanced-clean-fleets-meetings-events>)

Next Steps

- For more information, please contact CARB staff by [email](mailto:zevfleet@arb.ca.gov) (zevfleet@arb.ca.gov)
- 45-Day rulemaking package early September 2022
- Board recommendation October 2022