

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

Navigating your Equipment Purchase Through CARB



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CALIFORNIA AIR RESOURCES BOARD ADVANCED CLEAN FLEETS (ACF) REGULATION

How it Affects Customers of Municipal Maintenance Equipment [MME]

HERE IS WHAT'S HAPPENING IN CALIFORNIA

The California Air Resources Board "CARB" Board of Directors voted, and the [ACF regulation](#) was approved and filed with the Secretary of State on October 1, 2023. This regulation dramatically affects the fleets owned by our valued customers in the public and private sectors. All public fleets are affected with some minor exceptions which are detailed below. Private fleets affected are defined as "High priority fleets" which are entities that own, operate, or direct at least one vehicle in California, and that have either \$50 million or more in gross annual revenues, or that own, operate, or have common ownership or control of a total of 50 or more vehicles (excluding light-duty package delivery vehicles). We have prepared this document to assist our customers as they navigate these new regulations which are set to begin on January 1, 2024. For more information on ACF including Q&A about the regulation please visit [CARB's website](#). When making fleet strategy decisions please refer to the approved ACF regulation on CARB's website and consult with CARB personnel if there are questions.

There are (2) pathways offered to State and Local Government Fleets to begin compliance January 1, 2024 (defined as a city, county, public utility, special district, local agency or district or a public agency of California) with jurisdiction in California that owns, leases, or operates one or more vehicles that have a Gross Vehicle Weight Rating (GVWR) greater than 8,500 pounds. Additional time will be provided to fleets with 10 or fewer vehicles and/or the governmental fleets that are based in designated low-population counties such as Alpine, Amador, Butte, Calaveras, Colusa, Del Norte, Glenn, Humboldt, Inyo, Lake, Lassen, Mariposa, Mendocino, Modoc, Mono, Nevada, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, Tuolumne and Yuba. These low-population counties will be required to begin adding ZEVs in 2027.



CARB ACF Regulation

- Here is what's happening in California
 - The California Air Resources Board (CARB) Board of Directors voted, and the ACF regulation was approved and filed with the Secretary of State on October 1, 2023. This regulation has a significant impact on the fleets owned by our valued customers in both the public and private sectors.
 - All public fleets are affected, with some minor exceptions, which are detailed in the bottom section of the image displayed.
 - Private fleets affected are defined as "High priority fleets: which are entities that own, operate, or direct at least one vehicle in California, and that have either \$50 million or more in gross annual revenues, or that own, operate, or have common ownership or control of a total of 50 or more vehicles (excluding light-duty package delivery vehicles).

WHAT ARE ZEV’S

ZEV’s are defined as Battery Electric Vehicles (BEV), Hydrogen Fuel Cell Electric Vehicles (FCEV). Hybrid Electric Vehicles (HEV) are not considered ZEVs and Plug-in Hybrid Electric Vehicles (PHEV) are considered Near Zero Emissions Vehicles (NZEV) but are limited by All-Electric Range Requirement



ZEV Purchase Option

- 50% ZEV purchase requirement beginning Jan. 1, 2024 through December 31, 2026.
- 100% ZEV purchase beginning January 1, 2027.



Milestone Option

- Until January 1, 2030, State and Local Government Agency Fleets may opt-in to the ZEV Milestone Option and meet ZEV targets as a percentage of their CA fleets, as an alternative compliance option to the Model Year schedule.
- This allows for a graduated move to ZEVs depending on classification of the truck (Table 1) between 2024 and 2042, depending on the type of vehicle and usage.
- If choosing this option, fleet owners must meet or exceed the ZEV Fleet Milestone percentage requirements, shown in Table 1.

Table 1: ZEV Fleet Milestones by Milestone Group and Year

Percentage of vehicles that must be zero-emission	10%	25%	50%	75%	100%
Milestone Group 1: Box trucks, vans, buses with two axles, yard tractors, light-duty package delivery vehicles	2025	2028	2031	2033	2035 and beyond
Milestone Group 2: Work trucks, day cab tractors, busses with three axles	2027	2030	2033	2036	2039 and beyond
Milestone Group 3: Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042 and beyond

The following vehicles, as listed on page 12 of the final ACF regulation are exempt.

Exemptions

The following vehicles are exempt from the requirements specified in sections 2013 through 2013.4:

1. School buses as defined in CVC section 545(a);
2. Military tactical vehicles as described in title 13, CCR, section 1905;
3. Vehicles awaiting sale;
4. Emergency vehicles as defined in CVC section 165;
5. Historical vehicles;
6. Dedicated snow removal vehicles;
7. Two-engine vehicles;
8. Heavy cranes as defined in title 13, CCR, section 2021(b)(16);
9. Transit vehicles subject to the Innovative Clean Transit regulations commencing with title 13, CCR, section 2023; and
10. Vehicles that are subject to the Zero-Emission Airport Shuttle regulations of title 17, CCR, sections 95690.1, 95690.2, 95690.3, 95690.4, 95690.5, 95690.6, 95690.7, and 95690.8.

Zero Emissions Vehicle

- What are ZEVs?
 - Zevs are defined as Battery Electric Vehicles (BEV), Hydrogen Fuel Cell Electric Vehicles (FCEV).
 - Hybrid Electric Vehicles (HEV) are not considered ZEVs, and Plug-in Hybrid Electric Vehicles (PHEV) are considered Near Zero Emissions Vehicles but are limited by All-Electric Range Equipment.
- ZEV Purchase Requirements
 - 50% ZEV purchase requirement beginning Jan.1, 2024, through December 31, 2026.
 - 100% ZEV purchase beginning January 1, 2027.

**OUR CURRENT ZEV OFFERINGS
INCLUDE THE FOLLOWING:**

Wastewater and Water

- ACF lists the **VAC-CON Twin Engine Combination Machine** as exempt meaning agencies are not required to buy a ZEV combination machine if they purchase a twin-engine VAC-CON.
- **PipeHunter** currently produces a fully electric truck mounted and trailer mounted jetter.

Refuse

- Refuse customers that exclusively fuel equipment with Bio-Methane harvested from their own waste defer ZEV requirements until 2039.
- **Labrie automated side loaders, Wittke front loaders and Leach rear loaders side loaders, Wittke front loaders and Leach rear loaders** are fully integrated and are compatible with all EV Chassis OEMs.

Streets Maintenance

MME currently provides the following ZEV street sweepers to our customers:

RAVO 5 eSeries



Multihog ECV



Schwarze M6E



This is truly an unprecedented time in the history of our state and the effects of this regulation will be far-reaching. Over the last several months, I have attended weekly meetings with CARB to make sure our market segment is represented and while I can honestly say they are listening to our concerns, I cannot stand here today and ensure you that there will be relief. I believe it is up to each and every one of us to make informed decisions that are in the best interest of our respective organizations, even when those decisions are difficult. Collaboration and Creativity will become the new normal, and Courage will be the key!



Current ZEV Offerings

- **Wastewater and Water**
 - **VAC-CON Twin Engine Combination Machine**
 - ACF lists the Vac-con TE Combination Machine as exempt, meaning agencies are not required to buy a ZEV combination machine if they purchase a twin-engine Vac-con.
 - **PipeHunter**
 - Currently produces a fully electric truck-mounted and trailer-mounted jetter.
- **Refuse**
 - Labrie ASL, Wittke front loaders, and Leach rear loaders are fully integrated and are compatible with all EV chassis OEMs.
- **Street Maintenance**
 - Ravo 5 eSeries
 - Multihog ECV
 - Schwarze M6E



Vac-con Dual Engine (CARB EXEMPT)

- ▶ How components are driven
 - ▶ Chassis engine drives the vacuum system (Fan or PD)
 - ▶ Auxiliary engine (gas or diesel) drives the hydraulics and water system
- ▶ Benefits
 - ▶ Quieter
 - ▶ Less heat
 - ▶ Safer
 - ▶ Improved Fuel Efficiency

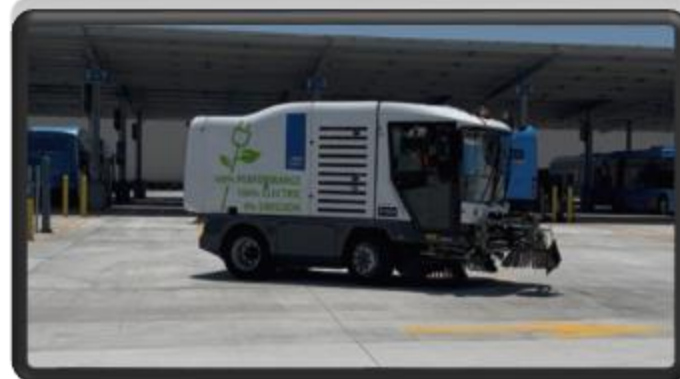
PipeHunter Electric Jetter

- ▶ EV Jetter Configurations
 - ▶ Trailer or Truck-Mounted packages
 - ▶ 12 GPM up to 35 GPM (with pressures up to 4,000 PSI)
 - ▶ Direct-driven E-drive water pump
- ▶ Battery Information
 - ▶ Managed battery packs with Low-voltage detection
 - ▶ Giant Triplex Water Pump
 - ▶ Digital display for battery status and estimated runtime
 - ▶ Simple Charging system (Level 1, 2 & 3 available) overnight, or regenerate while driving.
 - ▶ Multiple battery pack configurations available
 - ▶ Enough power to run several tanks of water per day (@ full pressure/flow)
- ▶ Water Capacity
 - ▶ Truck mount 700 gallons
 - ▶ Trailer mount 350 gallons



Street Maintenance Electric Options

- ▶ Labrie
- ▶ Ravo Mathieu
- ▶ Multihog



RapidView
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E-TRANSIT CONVERSIONS



FORD
E-TRANSIT



FULL CHARGE OVERNIGHT



EST. RANGE OF 143 MILES

MAKING THE SWITCH TO ELECTRIC?

Ford E-Transit Van

- ▶ With Isolated Battery System and Solar Panels
- ▶ (Most Common CCTV ZEV)

E-Transit with Solar Panels and isolated battery system.



Chevy BrightSide with Victron Battery Bank and Custom Solar panels



Trailer Option.... comes with Victron Energy Battery bank system





Box Trucks

Motiv's electric box trucks have been delivering fresh goods, books, and community services every day since 2015.

Our all-electric trucks are built in partnership with fleet customers and their needs, and offer unparalleled reliability while saving fleets on operating and maintenance costs.



>98%
fleet uptime

300+
customer vehicles

4.5M
customer miles driven

10
of the top 20
North American fleets



Features

- Unique redundant high voltage safety systems protects operator and vehicle
- Electronic Stabilization Control helps prevent roll over or skidding during sudden deceleration
- Patented battery management software and active thermal battery management optimizes charging and cold weather performance while maintaining highest level of system safety
- Proprietary Hill Hold technology ensures vehicle and driver safety
- Over-the-air software updates
- Proprietary fleet health reports use vehicle field data to provide insights to help optimize fleet efficiencies and improve driver experience
- Customizable regenerative braking settings for maximum range and operator comfort
- Multiple body configurations available
- No CDL required

202407 | The information presented here may be subject to change at any time. | motivtrucks.com | © 2024 Motiv Power Systems

EV Retro to E450 Gas unit 16' box truck , 10 Year Warranty, Silcon Valley based



**Clean Truck and
Bus Incentives**

VIP Funding Dashboard

Last updated: September 29, 2025

HVIP Standard funding is currently oversubscribed but is continuing to accept voucher requests. Any requests received will be placed on a contingency list, but funding is not guaranteed.

Funding for small fleets is still available through HVIP standard small fleet set-aside.

Waitlist

Standard HVIP

\$5.0MM

Reserved for Small Fleets

\$83.0MM



Thank You , Questions ?

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