



## **Drive Forward Initiative**

# California Continues Forward

## Executive Order N-27-25

- Reaffirms California's commitment to deploy ZEVs and improve air quality

## ZEV Forward

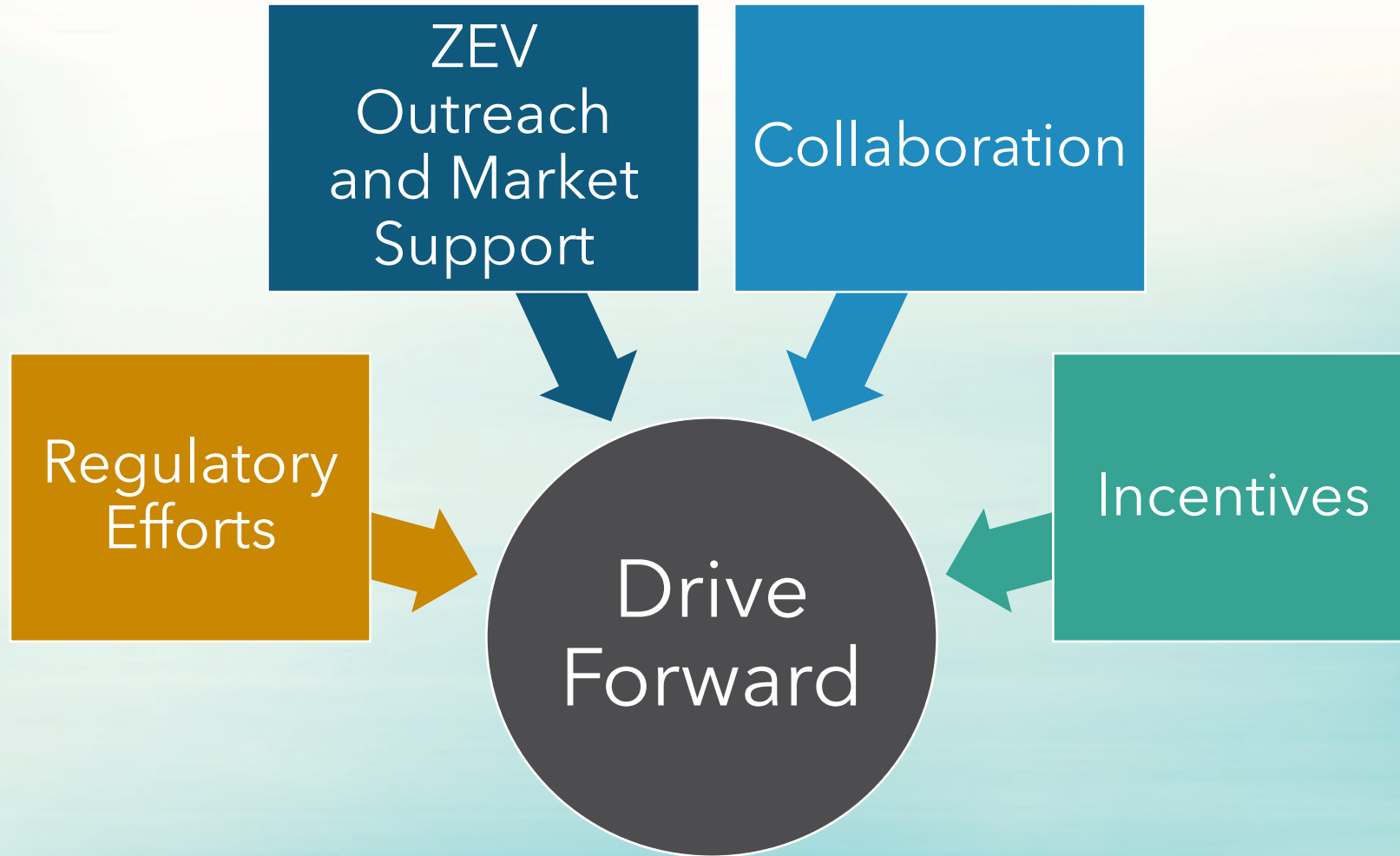
- Assessed additional actions needed to advance ZEV adoption

## Report to Governor

- Recommended actions to further light-, medium-, and heavy-duty ZEV adoption in the state

## Drive Forward

# Drive Forward



# Drive Forward Engagement Opportunities

## Recent Events

- **11/13 Workshop-** Drive Forward Incentives  
**Location-** Hybrid: CalEPA Headquarters, Sacramento, and virtual via Zoom
- **12/3 Workshop:** Drive Forward Heavy-Duty Standards and Strategies  
**Location-** Hybrid: CalEPA Headquarters, Sacramento, and virtual via Zoom



<https://ww2.arb.ca.gov/drive-forward>

# Survey Regarding the Department of General Services' Bulk Procurement Process for Medium- and Heavy- Duty Vehicles

California Air Resources Board  
Survey



<https://rb.gy/4p39hu>

# California Clean Construction Program

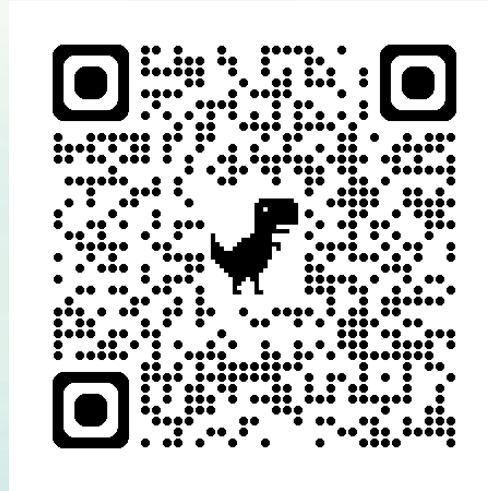


- Voluntary
- Non-monetary incentive
- California Environmental Quality Act mitigation measure eligible

- Projects reduce emissions with use of zero-emission equipment
- Recognition for awarding body and contractor

# Contact

- If you would like to learn more, please contact Holmes Bassette at [holmes.bassette@arb.ca.gov](mailto:holmes.bassette@arb.ca.gov)
- Our team is available to meet and discuss the program



<https://ww2.arb.ca.gov/california-clean-construction-program>



# **Advanced Clean Fleets**

## **State and Local Government**

# Advanced Clean Fleets Update

Amendments to the ACF regulation were recently adopted which would repeal parts of the regulation applying to federal or private fleets, including requirements for drayage trucks. The amendments are expected to be effective before January 2027.

The state and local government fleets portion of ACF would remain, subject to amendments under AB 1594, which preserve CARB's authority to provide added flexibility for most public agency utilities. Consistent with its mission to reduce air pollution and protect public health, CARB encourages all to continue reducing emissions and we look forward to partnering with you in these efforts.

# State and Local Government Fleet Applicability

- “State or local government agency” means a city, county, public utility, special district, local agency or district, and any department, division, public corporation, or public agency of the State of California.
- Applies to any state or local government agency in California that owns, leases, or operates one or more vehicles with a gross vehicle weight rating (GVWR) greater than 8,500 lbs.



# Excluded Vehicles

- School buses defined in (California Vehicle Code §545)
- Emergency vehicles defined in (California Vehicle Code §165)
- Vehicles awaiting sale
- Military tactical vehicles
- Historical vehicles
- Dedicated snow removal vehicles
- Certain two-engine vehicles
- Heavy cranes
- Transit vehicles subject to Innovative Clean Transit regulation
- Vehicles subject to Zero-Emission Airport Shuttle regulation



# ZEV Purchase Schedule

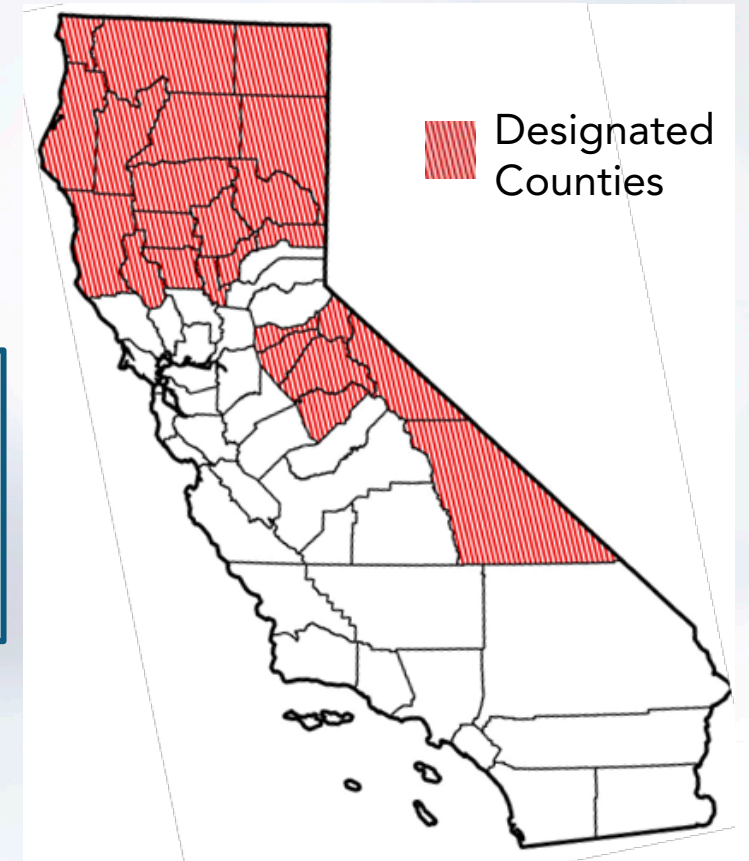
## Current Requirements

2024-2026

January 1, 2027+

50 percent of purchases must be ZEV or NZEV

All purchases must be ZEV or NZEV



- Agencies in designated counties or divisions with 10 or fewer vehicles are exempt from the ZEV purchase requirements until 2027, still must report to TRUCRS
- 2035 and earlier MY NZEVs count as a ZEV





# Reporting Date

- State and Local Government Agency Fleets
  - **T**ruck **R**egulation **U**pload, **C**ompliance, and **R**eporting **S**ystem (**TRUCRS**)
  - Initial Reporting Deadline April 1, 2024
  - Annual deadline April 1, until 2045
- Fleet changes need to be reported within 30 days of occurrence
  - Any vehicles added
  - Any vehicles permanently removed
  - Backup vehicles that exceed the allowable mileage
  - ZEV conversions




# ZEV Purchase Schedule - Considerations

- Existing compliant internal combustion vehicles can be operated indefinitely
  - No useful life retirement in this option
- Early/excess action credit
  - ZEVs purchased early or in excess of purchase requirements count one-for-one towards future combustion-powered vehicle purchase
- Flexibility provision access
- Compliance is assessed at the end of year for all purchases made during that calendar year
- Non-transit vehicles owned by Transit Agencies subject to the ICT regulation are exempt through 1/1/2030




# ZEV Milestones Option

- Available to State and Local Government Agency Fleets
- Provides flexibility to comply regardless of vehicle age or mileage
- Phased-in based on ZEV suitability by vehicle type
  - Must meet ZEV milestones as a percent of California fleet
- Flexibility to add new or used ICE vehicles beyond 2027
- Annual Reporting Deadline is February 1
- Can opt-in permanently in TRUCRS until 1/1/2030
- Must waive right to statutory useful life for vehicles

# ZEV Milestones Option Table

Zero-Emission Fleet Percentage	10%	25%	50%	75%	100%
<p>Group 1: Box trucks, vans, 2-axle buses, yard trucks, light-duty package delivery vehicles</p> 	2025	2028	2031	2033	2035
<p>Group 2: Work trucks, pickups, day cab tractors, 3-axle buses</p> 	2027	2030	2033	2036	2039
<p>Group 3: Sleeper cab tractors and Class 8 specialty vehicles</p> 	2030	2033	2036	2039	2042

# Example for a 100 Truck Fleet

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 tractors, light-duty delivery vehicles 	60	6 (10%)	15 (25%)	45 (75%)	60 (100%)	60 (100%)	60 (100%)
Work trucks, day cab tractors, pickup trucks, three-axle buses 	20	0	2 (10%)	10 (50%)	15 (75%)	20 (100%)	20 (100%)
Sleeper cab tractors and Class 8 specialty vehicles 	20	0	0	5 (25%)	10 (50%)	15 (75%)	20 (100%)
<b>ZEV Milestones</b>	<b>100</b>	<b>6</b>	<b>17</b>	<b>60</b>	<b>85</b>	<b>95</b>	<b>100</b>

# Exemptions and Extensions

Provision	Summary
Vehicle Delivery Delay Extension*	Allows a fleet to remain compliant if a ZEV order is delayed.
<b>ZEV Infrastructure Delay Extension</b>	Extends compliance for up to 5 years for delays during planning and construction.
<b>ZEV Purchase Exemption</b>	Can buy ICE vehicle if ZEV is not available in same configuration and weight class.
<b>Daily Usage Exemption</b>	Can buy ICE vehicle if available BEV does not meet fleet’s mileage or power needs, and no NZEV or FCEV are available in the same configuration and weight class.
Mutual Aid Assistance	Reserves up to 25 percent of ICE vehicles in a fleet for use in mutual aid events.
Waste and Wastewater Fleets Ext.	Gives more time for existing CNG trucks in waste diversion and biomethane generation. Must permanently opt into ZEV Milestones to qualify.
Non-Repairable Vehicle	Flexibility to purchase used replacement ICE vehicle in case of an accident.
Backup Vehicle Exemption	Vehicle operated less than 1000 miles per year, excluding emergency operation mileage.
Intermittent Snow Removal Vehicle	May purchase ICE vehicles to operate as intermittent snowplow until 2030.
Transit Agency Exemption	Excludes transit agencies and their maintenance vehicles until 1/1/2030.

Note: \* Not relevant to ZEV Purchase Schedule

**Under ZEV Purchase Schedule MY of ICE vehicle being replaced must be at least 13 years old to qualify,**<sup>19</sup>



Amendments will expand compliance flexibilities- Expected to be effective before 2027

# Amendments to Advanced Clean Fleets

- Board Hearing Date: 9/25/2025
- Repeal parts of the ACF regulation applying to federal or private fleets, including requirements for drayage trucks
- Extend the 50% ZEV purchase requirement by three years and delay the 100% ZEV purchase requirement to 2030
  - Extending the exemption for small fleets and designated low population counties until 2030
- Expand compliance flexibilities
- Expected to be effective before January 2027
- Details regarding the amendments can be seen online:
- <https://ww2.arb.ca.gov/rulemaking/2025/acfab1594>

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## **Phone**

(866) 634-3735

# Zero-Emission Forklift Regulation

## State and Local Government Fleet Requirements



# Zero-Emission Forklift (ZEF) Regulation and California Air Quality

- Necessary for State and Federal air standards, protecting public health from air pollution and achieving climate goals
- Achieves emissions reductions by phasing out forklifts using fossil-fueled large spark-ignition (LSI) engines
- Almost ½ of California forklifts already use ZEF technology
- 400+ ZEF models available
- Decades of testing and advances in battery and fuel-cell powertrains
- Operating cost savings due to lower energy and maintenance costs



# Zero-Emission Forklift Regulation Overview

**Affected Forklifts:** Large-Spark Ignition (LSI), i.e., propane, natural gas, or gasoline

**Class IV:** solid or cushion tires, dry and smooth surfaces (indoor warehouses)

**Class V:** pneumatic tires, rough or uneven terrain (indoor and outdoor)

**2026 Requirements:** Fleet operators may not acquire LSI Forklifts

Initiate discussions with utility provider by March 31, 2026

**2028-2038 Requirements:** LSI Forklifts to be phased out, oldest model year (MY) first

***California state and local government fleets shall comply with the ZEF Regulation.***

*CARB has not sought authorization for the Zero-Emission Forklift (ZEF) Regulation from the U.S. Environmental Protection Agency and will not enforce the regulation against private fleets.*

# Reporting Timeline for State and Local Government Forklift Fleets

Compliance Deadline	Reporting or Action Required
March 31, 2026	Initiate discussions with utility provider and submit correspondence to CARB
April 30, 2026	Initial report for large fleets due
September 30, 2026	Initial report for small fleets due
January 1, 2028	Large fleet: MY Phase-Out Schedule for Class IV LSI Forklifts begin
January 1, 2029	Small fleet: Alternative MY Phase-Out Schedule for Class IV LSI Forklifts begin
January 1, 2030	Small and large fleets: MY Phase-Out Schedule for Class V LSI Forklifts begin
April 30	Annual update for large fleets due
September 30	Annual update for small fleet due

Report on the Diesel Online Off-Road Reporting System ([DOORS](#))

# Initiate Discussions with Electric Utility Provider

- Fleet Operators shall contact their electric utility provider by **March 31, 2026** regarding potential electrical-service installations or upgrades
- Fleet operator must provide:
  1. Address of California location(s) where LSI forklifts are operated
  2. For each location:
    - a) Estimated number and type of chargers to be installed
    - b) Power requirements of any infrastructure necessary to be installed
    - c) Other new sources of anticipated power demand during phase out
    - d) Electrical load profiles depicting typical electricity usage on hourly, daily, and monthly basis
- [Final Regulation Order: Zero-Emission Forklift Regulation § 3006 \(c\)](#)

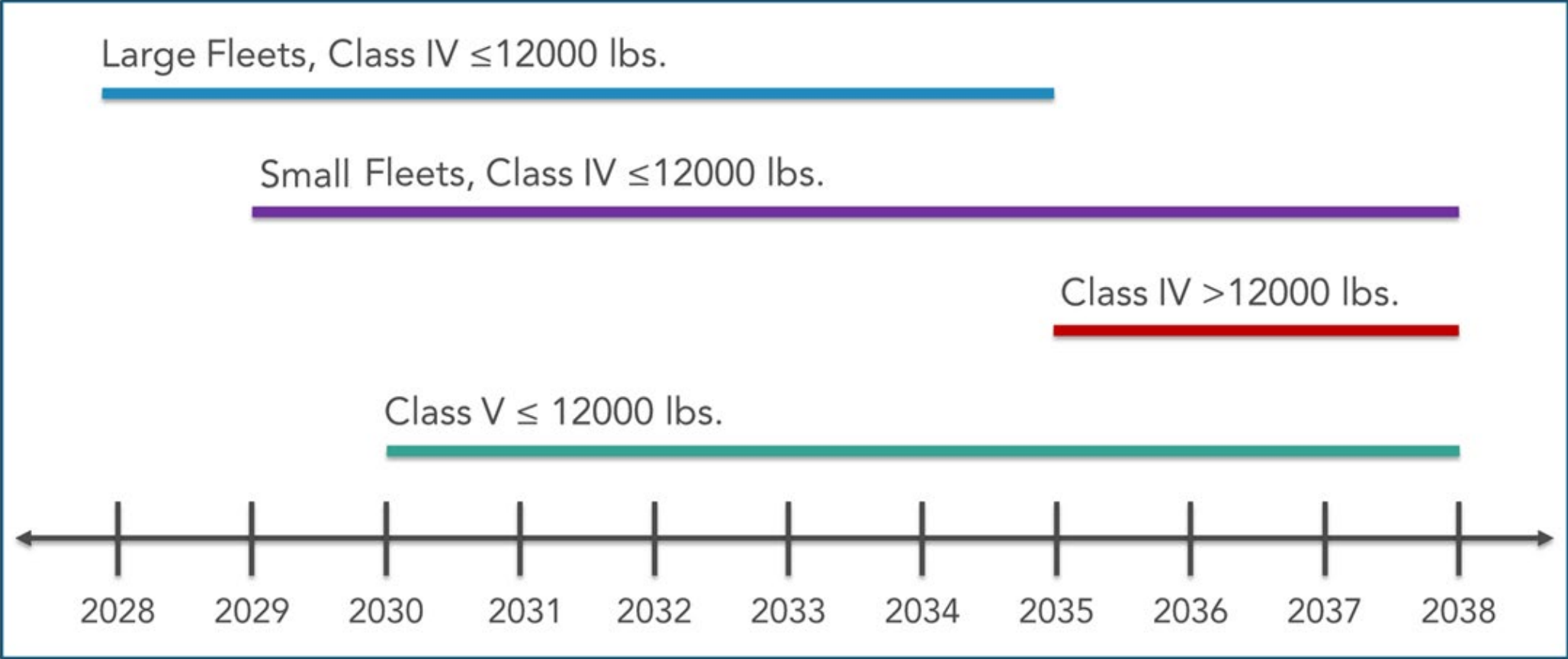
# Forklift MY Phase-out Schedule

Starting	Class IV ≤ 12,000 lbs	Small Fleets* Class IV ≤ 12,000 lbs	Class IV > 12,000 lbs	Class V ≤ 12,000 lbs
2028	2018 MY & older**			
2029		2016 MY & older**		
2030				2017 MY & Older**
2031	2019 – 2021 MY			
2032		2017 – 2019 MY		
2033	2022 & 2023 MY			2018 – 2020 MY
2034		2020 & 2021 MY		
2035	2024 & 2025 MY		2025 MY & older	2021 & 2022 MY
2036		2022 & 2023 MY		
2038		2024 & 2025 MY	Alternative* 2025 MY & older	2023 – 2028 MY

\* Alternative Schedule Available to Small Fleets

\*\* Eligible for phase-out percentage cap

# Forklift Model Year (MY) Phase-Out Timeline



**Large Fleets:** Greater than 25 LSI & ZE forklifts combined  
**Small Fleets:** 25 or less LSI & ZE forklifts combined

# ZEF Exemptions and Extensions

## Exemptions

- Low-Use
- Dedicated Emergency Forklifts
- Out-of-State Delivery
- San Nicolas and San Clemente Islands
- In-Field Forklift

## Extensions

- ZEF Delivery Delay
- Infrastructure Construction
- Infrastructure Site Electrification
- Operational Extension

*ZEF Extension Fact Sheets:*

<https://ww2.arb.ca.gov/zero-emission-forklift-fact-sheets>

# Zero-Emission Forklift Regulation

## ZEF Regulation Website

<https://ww2.arb.ca.gov/our-work/programs/zero-emission-forklifts>

## DOORS (Reporting)

[https://ssl.arb.ca.gov/ssldoors/doors\\_reporting/doors\\_login.html](https://ssl.arb.ca.gov/ssldoors/doors_reporting/doors_login.html)

## E-mail

[zeforklifts@arb.ca.gov](mailto:zeforklifts@arb.ca.gov)

## Phone

1-877-593-6677

Zero-Emission Forklift  
Regulation Website





# Clean Truck Check

# Clean Truck Check: Overview

*Clean Truck Check may also be called the heavy-duty vehicle inspection and maintenance program or HD I/M*

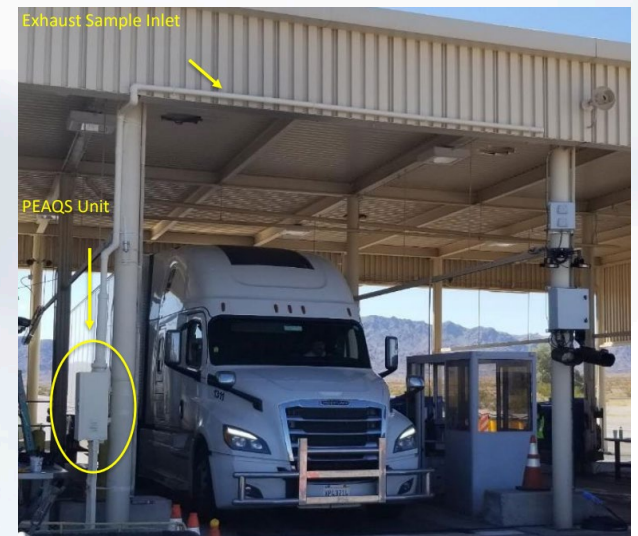
## What is Clean Truck Check (CTC)?

The Program ensures heavy-duty vehicles on California roads maintain functioning emissions systems by

- Emissions testing and data reporting
- Roadside monitoring for high-emitting vehicles
- Compliance verification requirements for freight contractors, seaports, and railyards

## What vehicles are regulated under Clean Truck Check?

Non-gasoline powered heavy-duty vehicles **over** 14,000 lbs. (manufacturer's GVWR) **operating on California public roads and highways.**



# Example Regulated Vehicles

Diesel, diesel hybrid, and alternative fuel vehicles **over** 14,000 lbs. manufacturer's GVWR that **operate on California public roads and highways**

- Trucks
- Motorhomes
- Buses and school buses
- Cargo vans
- Tow trucks
- Government-owned vehicles
- Personal vehicles



# Example Vehicles Excluded from Clean Truck Check

- Emergency vehicles  
*California Vehicle Code section 165 or Health and Safety Code section 1797.84*
- Gasoline heavy-duty vehicles already under the Bureau of Automotive Repair's Smog Check program
- Out-of-state vehicle operating pursuant to a Governor's Executive Order or Emergency Declaration (for 30 days)
- Zero-emission heavy-duty vehicles
- Tactical military vehicles
- Permanent historical vehicles  
*California Vehicle Code section 5004*

# Clean Truck Check: How to Comply

1. Report vehicles in CTC-VIS
2. Pay the annual compliance fee per vehicle
3. Submit passing emissions compliance tests



# Step 1: Report Vehicles

- Vehicle owners are required to report via the **Clean Truck Check, Vehicle Inspection System (CTC-VIS)**

[cleantruckcheck.arb.ca.gov](https://cleantruckcheck.arb.ca.gov)

Create and authenticate an account in CTC-VIS

Enter fleet and vehicle info

- CTC-VIS data can be pulled from TRUCRS



## Welcome to the California Clean Truck Check, Vehicle Inspection System (CTC-VIS) Portal

The California Air Resources Board (CARB) is the primary state agency responsible for actions to protect public health from the harmful effects of air pollution.

The new CTC-VIS program is our newest of these approaches, with which we will realize substantial emissions reductions from the heavy-duty vehicle sector and reduce the risk of harmful criteria pollutant exposure to all individuals living in California.



Optimized for Microsoft Edge

### Log In



Log in to manage your fleet, make payments, and view reports.

### Register



Register to manage your fleet, make payments, and view reports.

**Disclaimer:** By signing up for a CTC-VIS account, users agree to receive official communication from CARB regarding their fleet to the email address registered in their CTC-VIS account. Communication may include periodic testing information and enforcement notifications such as citations, Notices to Submit to Testing (NST), and other actions. Any updates to the email address must be updated in CTC-VIS.

**UNAUTHORIZED ACCESS TO ANY STATE OF CALIFORNIA COMPUTING SYSTEM IS A CRIMINAL VIOLATION OF PENAL CODE SECTION 502 AND/OR APPLICABLE FEDERAL LAW AND IS SUBJECT TO PROSECUTION.** Accessing any system while exceeding one's authorization or in ways not intended by the State of California shall be subject to prosecution. Information reported in this system will be used in program related research and in some cases provided to other involved government entities.

#### Learn about the Clean Truck Check

- Clean Truck Check-Vehicle Inspection System (CTC-VIS) Training Videos [↗](#)
- Reporting Database [↗](#)
- Program Background [↗](#)
- Tester List [↗](#)
- Tester Training [↗](#)
- Approved OBD Test Devices [↗](#)
- Smoke Opacity Manufacturers with SAE J1667-Compatible Meters [↗](#)
- Visual Inspection Form [↗](#)
- CARBTest Referee [↗](#)

Helpful links and videos



## Step 2: Pay the Annual Compliance Fee

- Pay the fee for each vehicle in CTC-VIS
- Annual fee adjusts with California Consumer Price Index (CCPI)
- Payments via credit card, debit card, or e-check
  - Paper checks are not accepted
- Batch payment option available

# Step 3: Emissions Compliance Testing Semi-Annual

Applies to most vehicles

- **1st Deadline:** DMV registration due date
- **2nd Deadline:** 6 months from the DMV registration due date
- Compliance tests can be submitted **90 days prior** to a deadline
- CTC-VIS notification for testing



# Step 3: Emissions Compliance Testing Semi-Annual, Exempt and Special Equipment

- Exempt Plate **1st** and **2nd** deadlines based on last digit of VIN

Last Number of VIN	0	1	2	3	4	5	6	7	8	9
Testing & Annual Fee Deadline Month	Apr <b>Oct</b>	May <b>Nov</b>	Jun <b>Dec</b>	<b>Jan</b> Jul	<b>Feb</b> Aug	<b>Mar</b> Sep	<b>Apr</b> Oct	<b>May</b> Nov	<b>Jun</b> Dec	Jan <b>Jul</b>

**Bolded months indicate the month the compliance fee will be due.**

- SE Plates have compliance deadlines based on the DMV registration expiration date (typically December 31)
- Compliance tests can be submitted 90 days prior to a deadline
- CTC-VIS notification for testing

# Step 3: Emissions Compliance Testing Annual



- Emissions compliance testing once annually
- Personal motorhomes and agricultural vehicles registered in California
- Deadline based on the vehicle's DMV registration due date

# Definition of Agricultural Vehicles

Vehicles operated by a farming business used exclusively in agricultural operations to transport agricultural products to the first point of processing\*



\* Includes packinghouses, slaughterhouses, cotton gins, nut hullers/shellers, processors, dehydrators, lumber mills, feed/grain mills, and biomass facilities.

<http://ww2.arb.ca.gov/resources/fact-sheets/agricultural-vehicles-requirements-clean-truck-check>

# Emissions Test Methods

- **OBD-equipped vehicles**

- 2013 and newer diesel or diesel hybrid engines
- 2018 and newer alternative fuel or hybrid alternative fuel engines

✓ **Certified device scan of OBD data**

- **Non-OBD vehicles**

- 2012 and older diesel engines
  - ✓ **Opacity test - SAE J1667** and
  - ✓ **Visual inspection** of emissions control equipment
- 2017 and older alternative fuel engines
  - ✓ **Visual inspection** of emissions control equipment



# CTC Credentialed Testers

- Search and verify for-hire credentialed testers at [arb.ca.gov/findaCTCtester](http://arb.ca.gov/findaCTCtester)
- Only credentialed testers submit emissions tests with CARB-approved testing equipment
- Become credentialed by completing the no-cost training and exam at [arb.ca.gov/CTCtester](http://arb.ca.gov/CTCtester)
- No credential necessary when using a CARB-approved continuously connected OBD telematics device

# CTC Testing Devices

- Only CARB-approved devices can be used for compliance tests
- CARB-approved test devices are at [Testing Device Vendor Information](https://ww2.arb.ca.gov/our-work/programs/inspection-and-maintenance-program/testing-device-vendor-information)

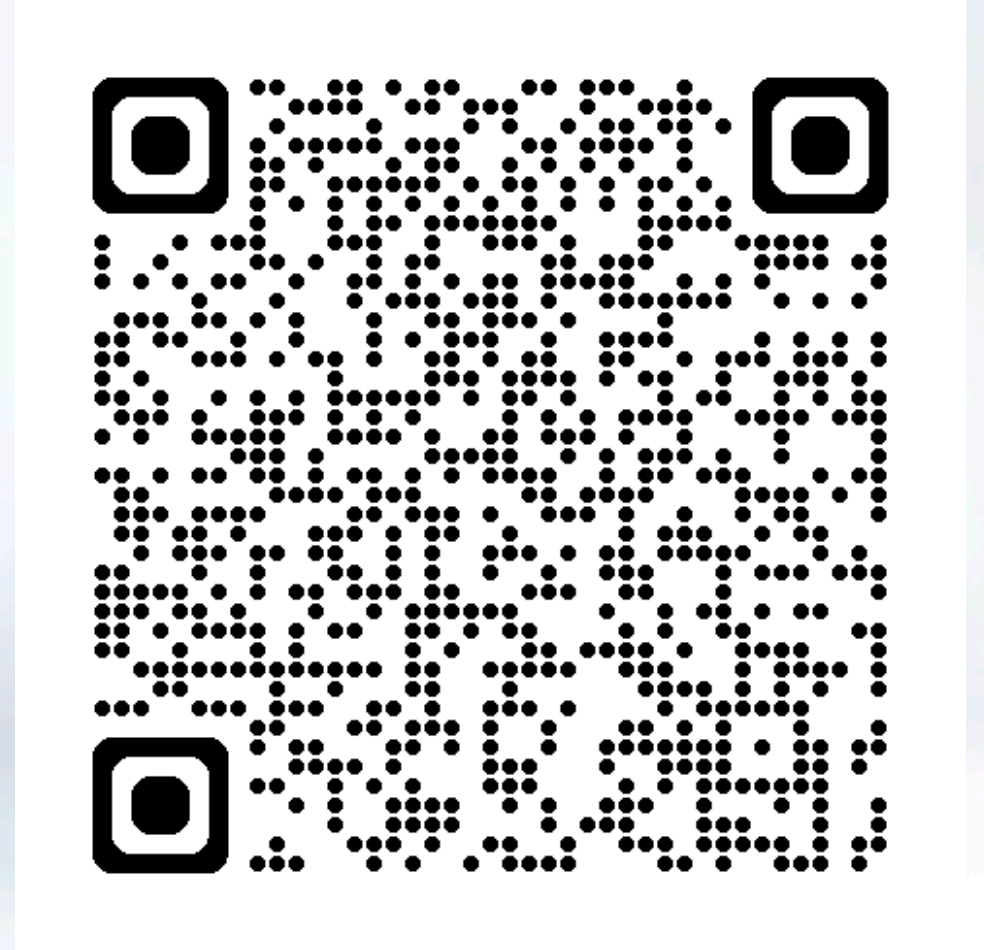


The screenshot shows the California Air Resources Board (CARB) website. At the top left is the CARB logo with the text "CALIFORNIA AIR RESOURCES BOARD". To the right is a navigation menu with links: ABOUT, OUR WORK, RESOURCES, SERVICES, RULEMAKING, NEWS, and EQUITY. Below the navigation is the page title "Testing Device Vendor Information" underlined. The main content area is divided into two columns. The left column lists various resources: Clean Truck Check (HD I/M), About, News, Resources, Fact Sheets, Guides, & Videos, Vehicle Owner Information, Credentialed Testers & Testing Devices, Vendor Information & Testing Devices, Reporting Database (CTC-VIS), Referee Program, and Subscribe to Email Updates. The right column lists specific testing device information: OBD Testing Device Vendor Materials, Vendor Device Certification, OBD Readiness Criteria, Testing Device Information, OBD Testing Devices, and SAE J1667-Compatible Smoke Meters.

<https://ww2.arb.ca.gov/our-work/programs/inspection-and-maintenance-program/testing-device-vendor-information>

# CTC-VIS: Guidance and Resources

- Guidance and Fact Sheets
- Training Videos
- Recorded Training Modules
- Q&A and Webinar Registration



<https://bit.ly/3XZKady>

# E-mail and Links

- Clean Truck Check e-mail  
[hdim@arb.ca.gov](mailto:hdim@arb.ca.gov)
- Clean Truck Check Vehicle Inspection System (CTC-VIS)  
<https://cleantruckcheck.arb.ca.gov>
- Clean Truck Check Program Information  
<https://ww2.arb.ca.gov/our-work/programs/CTC>

*Clean Truck Check may also be called the heavy-duty vehicle inspection and maintenance program or HD I/M*