



# **Advanced Clean Fleets (ACF) High Priority Fleets Overview**

December 15, 2023

# Introduction

- Welcome
- Purpose and focus
- Today's format
- Zoom instructions

# Outline for Today

- Air Quality, Background, Vehicles
- High Priority Fleets
- Model Year, Milestones Schedule
- Extensions & Exemptions
- Reporting & Recordkeeping
- Resources, Wrap-up

# Measures to Clean Up Heavy-Duty Vehicles



2018  
Innovative Clean  
Transit



2020  
Advanced  
Clean Trucks



2021  
Heavy-Duty  
Inspection and  
Maintenance



Future  
Zero-Emission  
Truck Measure



2019  
Zero Emission Airport  
Shuttle



2020  
Heavy-Duty  
Omnibus



2023  
Advanced  
Clean Fleets



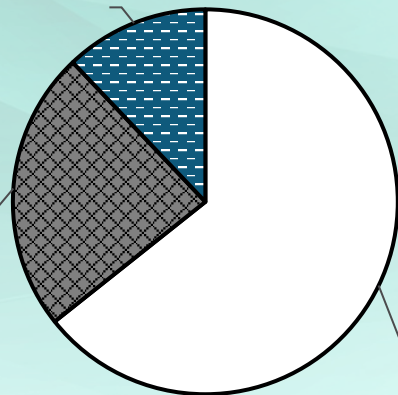


# Biggest Trucks Have Highest Emissions

## Daily Truck Population



Class 7-8 Tractors  
219,000 (12%)



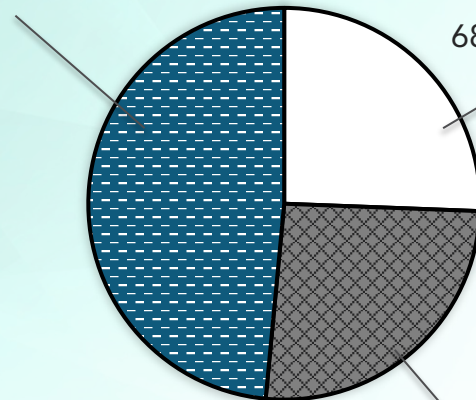
Class 4-8 Straight  
Trucks and Buses  
427,000 (24%)



Class 2b-3 Trucks  
and Vans  
1,164,000 (64%)

## Daily NOx Emission

Class 7-8  
Tractors  
129.7 tpd (48%)



Class 2b-3  
Trucks and  
Vans  
68.5 tpd (26%)

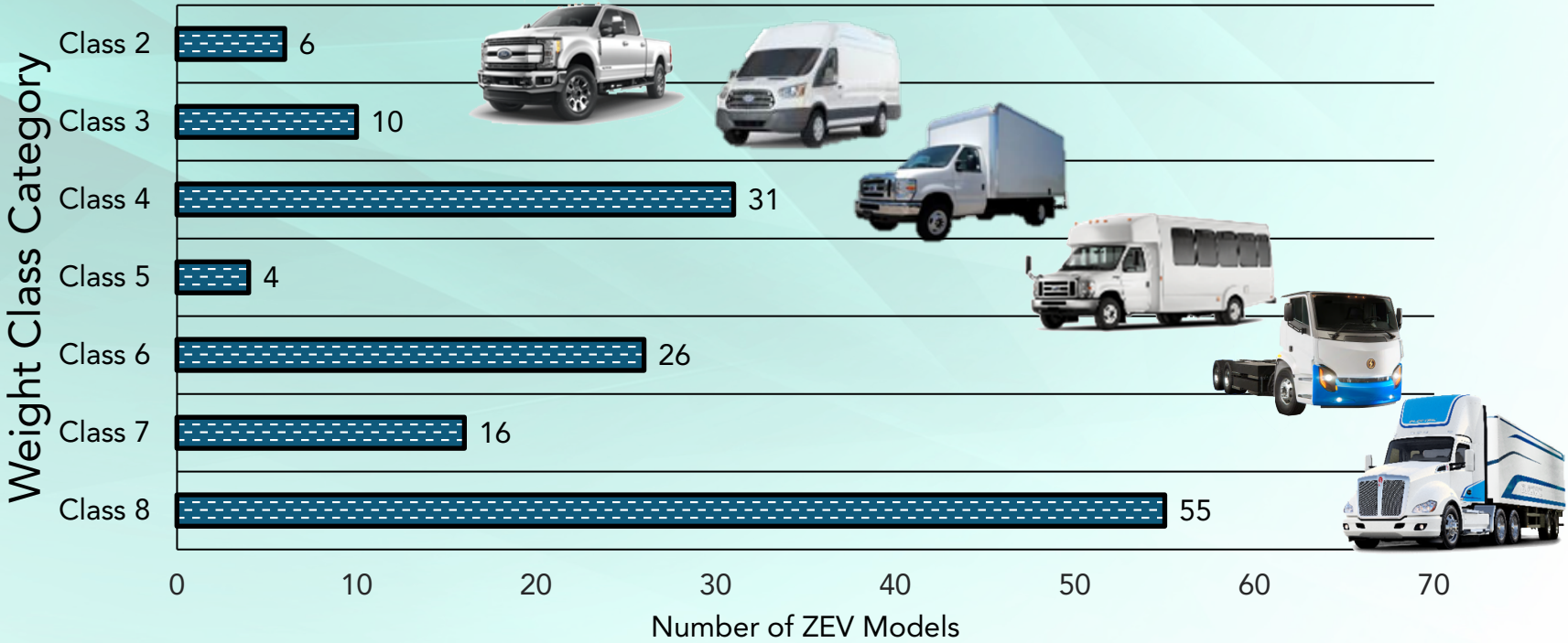
Class 4-8  
Straight  
Trucks and  
Buses  
69.3 tpd  
(26%)

# Combustion Regulations Addressing Fleets

## Fleets May Be Subject to One or Multiple Regulations

- Clean Truck Check (Formerly Heavy-Duty Inspection and Maintenance)
- Truck and Bus-now includes drayage trucks and investor-owned utilities
- Heavy-duty omnibus (manufacturer requirements)
- Solid Waste-does not include transfer trucks
- Transport Refrigeration Units (TRU)
- Public Fleets
- Off-Road
- [arb.ca.gov/truckstop](http://arb.ca.gov/truckstop)

# ZEV Models in United States



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

# Vehicle Resources

[californiahvip.org/vehiclecatalog](http://californiahvip.org/vehiclecatalog)

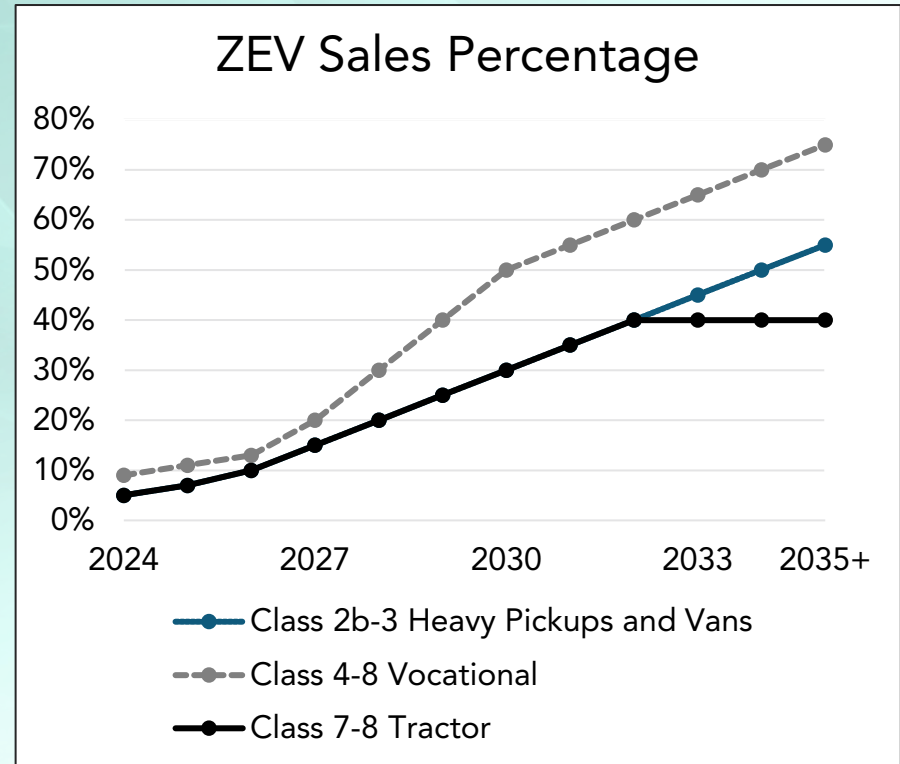
[globaldrivetozero.org/tools/zeti](http://globaldrivetozero.org/tools/zeti)

The screenshot shows the California HVIP website's vehicle catalog. At the top, there are navigation tabs: Funding, Vehicles (selected), Purchasers, Sellers, and News & Events. The main heading is "HVIP Eligible Vehicles". Below this, there is a sub-heading "Start by selecting a vehicle type below. Then select the vehicle(s) you are interested in to see the list of dealers and manufacturers who sell them." There are two buttons: "Approved Dealers" and "Archived Vehicles". The vehicle types are displayed in a grid of 10 categories, each with an icon and a label: 2b, ePTO, Heavy-Duty Bus, Medium-Duty Bus, Refuse, School Bus, Step & Panel Van, Straight Truck, Tractor, and All vehicles.

The screenshot shows the Global Drive to Zero Zeti tool interface. At the top, there is a navigation bar with links: HOME, MOU, ABOUT, NEWSROOM, PUBLICATIONS, EVENTS, TOOLS. The main heading is "ZERO-EMISSION TECHNOLOGY INVENTORY". Below this, there are regional filters: US & Canada, Europe, China, India, Mexico, South America, and Oceania. The interface has two main sections: "SELECT FUEL TYPE" and "SELECT AVAILABILITY". The "SELECT FUEL TYPE" section has two options: Electric (represented by a lightning bolt icon) and Fuel Cell (represented by an H2 icon). The "SELECT AVAILABILITY" section has a timeline with three points: Available, 2023, and 2024. Below these sections is "SELECT A VEHICLE PLATFORM" with 10 options: Coach Bus, School Bus, Shuttle Bus, Transit Bus, Cargo Van, MD Step Van, MD Truck, HD Truck, Yard Tractor, and Other. The final section is "SELECT A VEHICLE MANUFACTURER" with a grid of 40 manufacturer logos, including A, Affinity, BYD, CEV, E/NIIDE, ENL, ENDERA, ETV, GM, GLEED, GreenPower, HONDA, HYUNDAI, HYZEN, JAC, KION, LONSTAR, MAZDA, MERCEDES, MCI, NEW FLYER, NIO, NOVUS, ORANGE, PACCAR, PROTERIA, RIVIAN, SEA, TATA, TESLA, TOYOTA, and UES.

# Advanced Clean Trucks Regulation

- Manufacturers to sell ZEVs in all vehicle classes as a percentage of total sales\*
- Credit for pre-2024 sales
- 320,000 ZE trucks to California by 2035

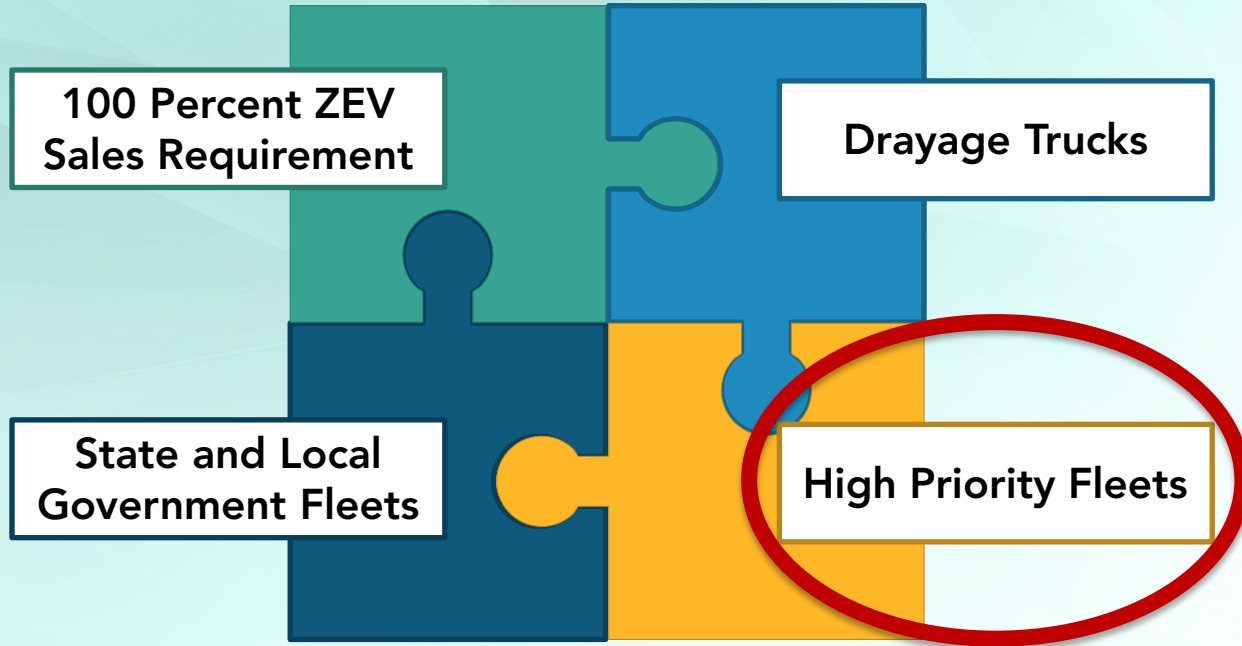






# Regulation Summary

# Advanced Clean Fleets Regulation Components



# High Priority Fleets Outline

- What are High Priority Fleets
- What vehicles are affected
- What are the compliance requirements
- What flexibilities are available
- What are the reporting requirements and deadlines, and where to report
- Where to find more information

# High Priority and Federal 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 and operate or direct the operation of ACF vehicles

## Affected vehicles

Class 2b-8 vehicles

Off-road yard tractors

Light-duty delivery vehicles



# Vehicle Scope Frequently Asked Questions

- Light-duty package delivery vehicles
  - GVWR at or under 8,500 lbs., 100 cubic feet or more of cargo-carrying volume, and is regularly used to deliver packages, parcels, or mail
- Other light-duty vehicles and ZEVs are not included
- ZEV conversions count as a compliant vehicle
- NZEVs (plug-in hybrids w/ minimum all-electric range) count same as a ZEV with a 2035 or earlier model year



# Excluded Vehicles

- School buses
- Emergency vehicles defined in California Vehicle Code 165
- Vehicles awaiting sale
- Military tactical vehicles
- Historical vehicles
- Dedicated snow removal
- Two-engine vehicles
- Heavy cranes
- Transit vehicles subject to Innovative Clean Transit regulation
- Vehicles subject to Mobile Cargo Handling regulation
- Manufacturer test fleets

# Model Year Schedule Summary

January 2024

Reporting required for legacy trucks

January 1, 2024

Newly added trucks must be ZEVs or NZEVs

January 2025

Must annually report mileage for tractors over 12 years

January 1, 2025

ICE vehicles removed after useful life exceeded

- Legacy trucks may operate until the end of their useful life
- May use certain exemptions and extensions
- ICE vehicle removals begin January 2025



# Model Year Schedule Example

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

# Model Year Schedule Practical Considerations

- Report all existing vehicles that may operate in California throughout their useful life
  - ICE vehicles cannot be added after January 1, 2024
- Lease extensions or buyouts do not impact minimum useful life of same vehicle and are not new additions to the California fleet
- ICE vehicles purchased before October 1, 2023 may be added after January 1, 2024
  - Report within 30 days of receiving and submit purchase order to [TRUCRS@arb.ca.gov](mailto:TRUCRS@arb.ca.gov) at time of reporting

# ZEV Milestones Option




- Provides flexibility to comply regardless of truck age or miles
- Phased-in based on ZEV suitability by truck type
  - Must meet ZEV milestones as a percent of California fleet
- Flexibility to add new or used ICE vehicles meeting cleanest engine requirements
- Can opt in until January 1, 2030 when reporting fleet information
- Must waive right to statutory useful life for vehicles
- Open to High Priority and State and Local Government fleets






# What engines can be added to the California fleet?

- Fleets using the ZEV Milestones Option can add new or used ICE vehicles as long as the ZEV Milestones are met
- Used vehicles added must have 2010 or newer model year engines
- New ICE vehicles purchased in California already must have engines meeting California requirements
- Out-of-state new vehicle purchases for primary use outside of California must be 50-state certified for 2024 and 2025 model year engines
- See fact sheet at <https://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-fleets-regulation-internal-combustion-engine-purchase>

# ZEV Milestones Option Table

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

# ZEV Milestones 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 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>

# ZEV Milestones Group Categorization

- All ZEV Milestones body types are defined in the regulation (Section 2015(b))
- “Work truck” is a catchall category to describe body types that do not meet the other vehicle type definitions in the ZEV Milestones table
- Most questions are related to whether a vehicle is specialty, work truck, or box truck.

# What Vans are in Milestones Group 1?

- Certified as a complete vehicle and sold as a passenger van or cargo van
- Cutaways sold as an incomplete vehicle, or upfit with a body are not vans and are classified by the body configuration
- Use case is not considered
- Typically Class 2b to 3





# What Box Trucks are in Milestones Group 1?

- Typically certified as an incomplete vehicle, cab-and-chassis, or cutaway.
- Body originally designed for delivery of cargo/payload
  - Step vans, refrigerated vans, dry vans, chipper trucks, box reefer trucks
- Combination bodies are not considered box trucks
  - Integrated chipper box and crane body
  - Combination half stake-bed and half-box
- Use case is not considered
- Typically Class 3 to 8



# What are Work Trucks in Milestones Group 2?

- Typically certified by the vehicle manufacturer as an incomplete vehicle or cab-and-chassis
- Work truck designation dependent on configuration
  - Definition of configuration looks at “primary intended function” of the vehicle and the equipment integrated into the body
  - PTO-powered equipment integrated into body is a good indicator that it is a work truck
  - Liftgates and similar low voltage systems are not considered integrated equipment
- Other examples that meet definition:
  - Scissor lift trucks, curtainside trucks (do not meet box definition), utility or service body trucks, construction trucks, tank or dump trucks, shredder trucks, etc.
- Typically Class 3 to 8



# ZEV Milestones Group 3 – Specialty Vehicles

- Any Class 8 with a heavy front axle; or
- Class 8 configured to perform work that can only be done while stationary, and:
  - Not designed to carry cargo, and
  - Work mechanism integral to vehicle design
- Examples include vacuum trucks, digger derricks, drilling rigs, concrete pump trucks
- Other examples that meet definition:
  - Class 8 refuse collection trucks with heavy front axle





# ZEV Milestones Practical Considerations

- Fleet must report all vehicles expected to operate in California for the year
  - Vehicles temporarily operated here then taken out of state still count for the whole year
- Should report vehicles coming to California before they operate here, and no more than 30 days after
- Vehicles that are sold or scrapped are immediately excluded from the date removed when reported
- Can replace vehicles without impacting fleet size
- Can renew or buyout leases without impacting fleet size

# High Priority Fleets Provisions Summary

Provision	Summary
Vehicle Delivery Delay Extension	Remain compliant if ZEV order delayed
Infrastructure Delay Extension	Up to 5 years for onsite ZEV infrastructure delays
ZEV Purchase Exemption	Can buy ICE vehicle from CARB list or apply if not available in configuration needed
Daily Usage Exemption	Can buy ICE vehicle if mileage or hours of ZEV not suitable for placement in the fleet
Mutual Aid Assistance	Reserve 25% of fleet for use in mutual aid agreements
Waste and Wastewater Fleets	More time for CNG trucks supporting waste diversion and biomethane production
Rental Vehicle Provision	Flexibility to address transient rental fleet vehicles
Five-Day Pass	Temporary pass to operate non-compliant trucks up to 5 days per year
Non-Repairable Vehicle	Flexibility to purchase used replacement ICE vehicle in case of accident
Backup Vehicle Exemption	Excludes vehicle operated less than 1000 miles per year
Intermittent Snow Removal Vehicle	May purchase ICE vehicles until 2030
Airport Shuttle Bus Exemption	Excludes vehicles subject to Zero-emission Airport Shuttle regulation until January 1, 2027



# Hiring and Sales Requirements

- Requirement to hire compliant fleets
  - Check the TRUCRS Fleet Lookup Tool at <https://ww2.arb.ca.gov/applications/truck-and-bus-regulation-check-compliance-status>, or obtain signed statement
  - Provide hired fleet a disclosure statement
  - Keep records of hired fleet's certificates
- Sales disclosure statement

# Joint Compliance Option

- Option to comply with Milestones jointly if:
  - Combined California fleet meets regulation requirements
  - Using ZEV Milestones Option
- Applies to subsidiaries, parent companies, and joint ventures
- Each subsidiary or joint venture must still report separately and include TRUCRS ID# of primary controlling parent, joint venture, or designated primary entity

# Upcoming Reporting Dates

- High Priority Fleets
  - Reports must be submitted through CARBs online reporting system known as TRUCRS  
<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>
  - February 1, 2024
- Fleet changes need to be reported within 30 days.

# Advanced Clean Fleets Webpage

The screenshot shows the CARB website at the URL <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>. The page features a dark blue header with navigation links: Calendar, FAQs, Contact, Careers, Subscribe, English, and Español. A search bar labeled 'SEARCH CARB' is also present. Below the header, the CARB logo and 'CALIFORNIA AIR RESOURCES BOARD' are displayed, along with a secondary navigation menu: ABOUT, OUR WORK, RESOURCES, SERVICES, RULEMAKING, NEWS, and EQUITY. The main heading is 'Advanced Clean Fleets', with a link '< BACK TO ALL PROGRAMS' to its right. A left sidebar contains a list of links: **Advanced Clean Fleets**, About, News, Resources, Meetings & Events, Regulation & Advisories, Regulatory Documents, **Reporting** (circled in red), FAQs, and ZEV TruckStop. The main content area begins with the text: 'The Advanced Clean Fleets (ACF) Regulation is the latest development in CARB's decades-long history of setting increasingly stringent emission standards for mobile sources that are needed to protect the public health and welfare of Californians. The ACF Regulation requires fleets that are well suited for electrification to transition to zero-emission vehicles (ZEV) through requirements to both phase-in the use of ZEVs for targeted fleets and requirements that manufacturers only manufacture ZEV trucks starting in the 2036 model year.' Below this text is a link 'MORE ABOUT THIS PROGRAM >'. At the bottom of the page, there is an 'Email Updates' section.

# High Priority Fleets Reporting



← ↻ 🔒 https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/registration-reporting

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## Registration & Reporting

**Advanced Clean Fleets**

About

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Meetings & Events

Regulation & Advisories

Regulatory Documents

Reporting

FAQs

On April 28, 2023, the California Air Resources Board (CARB) approved the Advanced Clean Fleets Regulation (ACF). Trucks covered by the ACF regulation will need to be reported in the Truck Regulation Upload, Compliance, and Reporting System (TRUCRS) database ([https://ssl.arb.ca.gov/trucrs\\_reporting/login.php](https://ssl.arb.ca.gov/trucrs_reporting/login.php)). The following links provide reporting guidance on a specific component of the ACF regulation; trucks may need to comply with multiple components of the ACF regulation:

- Drivage Trucks
- **High Priority Fleets**
- State and Local Government Fleets

Click [forgot password](#) to obtain your TRUCRS password. If you have any questions regarding registration and reporting, please contact the CARB Hotline, at (866) 634-3735 or by email ([trucrs@arb.ca.gov](mailto:trucrs@arb.ca.gov)).



# TRUCRS Reporting System

Welcome to the Truck Regulation Upload, Compliance and Reporting System (TRUCRS)

 NEW USERS	 EXISTING USERS	 RESOURCES
<p><a href="#">Create New Account</a></p> <p><a href="#">TRUCRS User Guides</a></p> <p><a href="#">FAQs and Fact Sheets</a></p>	<p>Username <input type="text"/></p> <p>Password <input type="password"/></p> <p><a href="#">Log In</a></p> <p><a href="#">Change Login Information/Close Account</a></p> <p><a href="#">Forgot Username/Password?</a></p>	<p><a href="#">Verify Fleet Compliance</a></p> <p><a href="#">Report Non-Compliant Fleets or Vehicles</a></p> <p><a href="#">Financial Assistance</a></p>

For assistance, e-mail [trucrs@arb.ca.gov](mailto:trucrs@arb.ca.gov) or call 1-866-6DIESEL (1-866-634-3735)

[<TRUCRS reporting system> \(ca.gov\)](https://ssl.arb.ca.gov/trucrs_reporting/login.php)

[https://ssl.arb.ca.gov/trucrs\\_reporting/login.php](https://ssl.arb.ca.gov/trucrs_reporting/login.php)

# Reporting

- Staff is expanding TRUCRS
  - Fleets can use same TRUCRS ID, update information
  - High Priority Fleets database is targeted for end of year
  - Updating detailed reporting guides
  - Reporting landing page: <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/registration-reporting>

## TRUCRS

Welcome to the Truck Regulation Upload Compliance and Reporting System (TRUCRS)

Hi CARB Trucking [Log Out](#)

[Account Home](#) [Account Settings](#)

Add a New Company To add a vehicle click 'View or Update' below.

TRUCRS ID	Company Name	Update or Delete Company	# Trucks Reported	# Trailers Reported	Compliance Status
There is no fleet in this account currently.					



# Resources

- ACF homepage:  
[arb.ca.gov/our-work/programs/advanced-clean-fleets](http://arb.ca.gov/our-work/programs/advanced-clean-fleets)
  - Multiple factsheets
  - Searchable FAQ
  - Fleet Calculator
- Truck Regulation Implementation Group
  - Infrastructure, rule provisions, outreach, border communities

# Additional Resources

- ACF email: [zevfleet@arb.ca.gov](mailto:zevfleet@arb.ca.gov)
- ZEV Truckstop homepage: [arb.ca.gov/zevtruckstop](http://arb.ca.gov/zevtruckstop)
- Hotline: 1-866-634-3735



**Thank You**