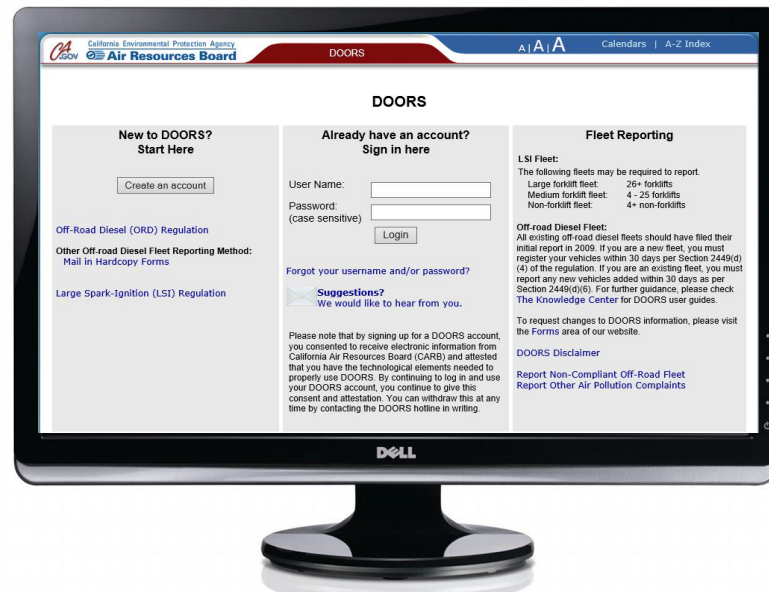


ZERO-EMISSION FORKLIFT REGULATION INITIAL REPORTING WEBINAR



LARGE SPARK-IGNITION (LSI) REGULATION

- Fleets previously were subject to LSI regulation reporting requirements if they had 4 or more total LSI forklifts and non-forklifts in their fleet.
- In the LSI regulation, fleets met the Fleet Average Emission Level (FAEL) Standards to be compliant.
- The Zero-Emission Forklift (ZEF) regulation is now effective for state and local government fleets with one or more Class IV or Class V LSI forklifts.

CARB staff will not enforce the ZEF regulation against any privately-owned or operated fleets

ZERO-EMISSION FORKLIFT REGULATION

- The California Air Resources Board (CARB) is proceeding with implementation of the ZEF regulation in a manner consistent with applicable federal requirements, including Clean Air Act section 209(e)(2)(A).
- CARB's near-term implementation efforts are directed to state and local government fleets, consistent with the regulation's coverage and CARB's current implementation guidance.
- California state and local government fleets must comply with the ZEF regulation.

Visit the [Zero-Emission Forklifts](#) webpage

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LET'S GET STARTED

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WHAT WILL BE COVERED...

1. Regulation Overview and Provisions
2. Initial Reporting Requirements
3. Logging into your DOORS account
4. Creating a Zero-Emission Forklift Fleet
5. Reporting facility and panel capacity information
6. Reporting forklift information
7. Exemptions
8. Submitting initial discussions with electric utility provider
9. Submitting the initial report

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ZERO-EMISSION FORKLIFT REGULATION OVERVIEW

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ZEF Regulation in the State Implementation Plan

- Necessary measure to meet air quality standards by deadlines established in the Clean Air Act
- Reduction of oxides of nitrogen and reactive organic gas emissions leads to less adverse health impacts across the state
- EO N-79-20: Develop strategies to increase percent of zero-emission (ZE) off-road vehicles in state



ZEF Regulation Status

- Adopted by CARB Board on June 27, 2024
- Approved by the Office of Administrative Law on September 16, 2024
- Regulation became effective on January 1, 2026
- The California Air Resources Board (CARB) is proceeding with implementation of the ZEF regulation in a manner consistent with applicable federal requirements, including Clean Air Act section 209(e)(2)(A). California state and local government fleets must comply with the ZEF regulation.

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ZEF Regulation Overview

- **Affected Forklifts:** Class IV and Class V LSI forklifts, 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 certain LSI forklifts
- **March 31, 2026 Requirement:** Initiate discussions with electric utility provider re: necessary upgrades
- **2028-2038 Requirements:** LSI Forklifts to be phased out, oldest model year (MY) first

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Forklift Classifications



**Class I
ZE**
Manufacturing
Facilities &
Warehouses



**Class II
ZE**
Warehouses,
High Shelves &
Narrow Aisles



**Class III
ZE**
Loading Areas

Targeted Large Spark Ignition (LSI) Forklifts



**Class IV
Internal Combustion**
Indoors, Smooth Floors
& Loading Docks



**Class V*
Internal Combustion**
Indoors & Outdoors,
Lumber Yards, Construction
Sites & Warehouses



**Class VII
Internal Combustion**
Rough Terrain, Construction
Sites, Lumber Yards
& Agriculture

*Targeted Class 5 forklift with rated capacity of 12,000lbs or less
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Determining Forklift Classification

- The most reliable way to determine whether your forklifts are **Class IV or Class V** is to check a combination of **manufacturer documentation, physical characteristics, and data plates**
- **Class IV LSI forklifts** have internal combustion engines that are propane, natural gas or gasoline fueled and use **cushion or solid tires that can be operated on dry or smooth terrain** like indoor warehouses
- **Class V LSI forklifts** have internal combustion engines that are propane, natural gas or gasoline fueled and use **pneumatic tires that can be operated on rough or uneven terrain** like lumberyards and construction sites
- Diesel forklifts **ARE NOT** subject to the ZEF regulation



**Class IV shown above
Class V show below**

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Reporting Timeline for ZEF

Compliance Deadline	Reporting or Action Required
March 31, 2026	Initiate discussions with electric utility provider
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 report due for large fleets
September 30	Annual report due for small fleets

ZEF Reports are completed on the Diesel Online Off-Road Reporting System (DOORS)

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Initiate Discussions with Electric Utility Provider

- Fleet Operators were supposed to have contact their electric utility provider by **March 31, 2026** regarding potential electric-service installations or upgrades
- Fleet Operators had to 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 (if applicable)
 - c) Other new sources of anticipated power demand during phase out
 - d) Electrical load profiles depicting typical electricity usages on hourly, daily, and monthly basis

[Final Regulation Order: Zero-Emission Forklift Regulation](#) § 3006 (c)

Fleet Sizes

- Fleet size is determined by the total number of Class IV LSI, Class V LSI, and ZEFs in the fleet
- Large fleets consist of 26 or more Class IV and Class V LSI and ZEF combined
- Small fleets consist of 25 or less Class IV and Class V LSI and ZEF combined
- For example, a fleet with 20 Class IV LSI forklifts, 4 Class V LSI forklifts, and 3 ZEFs is considered a large fleet

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Class IV LSI MY Phase-Out Schedule

Compliance Date	MY Phase-Out Schedule for Class IV Forklifts ≤12,000lbs	MY Phase-Out Schedule for Class IV Forklifts >12,000lbs
1/1/2028	2018 MY and older*	-
1/1/2029	-	-
1/1/2030	-	-
1/1/2031	2019-2021 MY	-
1/1/2032	-	-
1/1/2033	2022 and 2023 MY	-
1/1/2034	-	-
1/1/2035	2024 and 2025 MY	2025 MY and older

MY refers to the LSI forklift engine MY

***A phase-out percentage cap may be applied per Section 3006(e)**

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Class IV LSI Alternative MY Phase-Out Schedule – Small Fleets Only

Compliance Date	MY Phase-Out Schedule for Class IV Forklifts ≤12,000lbs	MY Phase-Out Schedule for Class IV Forklifts >12,000lbs
1/1/2028	-	-
1/1/2029	2016 MY and older*	-
1/1/2030	-	-
1/1/2031	-	-
1/1/2032	2017-2019 MY	-
1/1/2033	-	-
1/1/2034	2020 and 2021 MY	-
1/1/2035	-	-
1/1/2036	2022 and 2023 MY	-
1/1/2037	-	-
1/1/2038	2024 and 2025 MY	2025 MY and older

***A phase-out percentage cap of 25% may be applied per Section 3006(e)**

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Class V LSI MY Phase-Out Schedule

Compliance Date	MY Phase-Out Schedule for Class V Forklifts
1/1/2028	-
1/1/2029	-
1/1/2030	2017 MY and older*
1/1/2031	-
1/1/2032	-
1/1/2033	2018-2020 MY
1/1/2034	-
1/1/2035	2021 and 2022 MY
1/1/2036	-
1/1/2037	-
1/1/2038	2023-2028 MY

***A phase-out percentage cap of 50 or 25% may be applied per Section 3006(e)**
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Exemptions

Exemption	Description
Low-Use Forklift*	LSI Forklifts operated less than 200 hours per calendar year
Dedicated Emergency Forklift*	LSI forklift maintained and operated by a government agency for the purpose of supporting emergency operations. Less than 200 hours per year for other purposes
Temporary Storage of Non-Compliant LSI Forklift	May store a non-compliant LSI forklift awaiting sale, scrap or relocation on site for up to six consecutive months
San Nicolas and San Clemente Island	LSI forklifts solely operated on the islands by the United States Department of Defense
In-Field Forklift	More than 50% of forklifts annual operation is in agricultural or forest operations, not including crop preparation services.

***Additional reporting and labeling is required**

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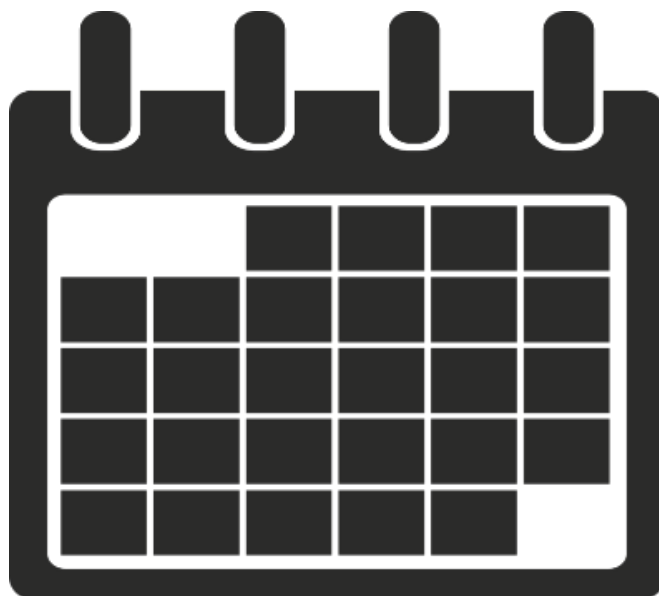
Extensions

Extensions	Description
Zero-Emission Forklift Delivery Delay	Ordered ZEF replacement for LSI Forklift cannot be delivered by the compliance date due to circumstances beyond fleet operators control
Infrastructure Construction Delay	Infrastructure construction delay due to circumstances beyond fleet operators control (i.e., construction of charging or fueling stations to accommodate ZEFs)
Infrastructure Site Electrification Delay	Utility provider determines it cannot provide requested power to site where ZEFs will be charged or fueled by upcoming compliance date
Operational Extension	No commercially available ZEF model that can meet needs of operation currently served by LSI forklift required to be phased out by upcoming compliance date

Forklifts under an extension must be labeled and additional reporting is required

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

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INITIAL REPORTING REQUIREMENTS

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LARGE FLEET INITIAL REPORT

- Large fleet initial reports are due no later than April 30, 2026
- Fleets shall report the following information to DOORS:
 - a) Entity information specified in Section 3009(b)(1)
 - b) Total number of Class IV LSI Forklifts within the fleet as of January 1, 2026*
 - c) Total number of Class V LSI Forklifts within the fleet as of January 1, 2026*
 - d) For each separately metered building or operating location:
 - 1. Copy of information submitted to electric utility provider
 - 2. Copy of correspondence from electric utility provider
 - 3. Date by which existing panel capacity expected to be insufficient to charge or fuel ZEFs (if applicable)

***Total does not include forklifts designated as low-use, dedicated emergency and awaiting sale, scrap or relocation**

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SMALL FLEET INITIAL REPORT

- Small fleet initial reports are due no later than September 30, 2026
- Fleets shall report the following information to DOORS:
 - a) Entity information specified in Section 3009(b)(1)
 - b) Total number of Class IV LSI Forklifts within the fleet as of January 1, 2026*
 - c) Total number of Class V LSI Forklifts within the fleet as of January 1, 2026*
 - d) Small fleets opting to utilize the Alternative Phase-Out Schedule must enter LSI and ZEF information specified in Section 3009(b)(2)
 - e) For each separately metered building or operating location:
 1. Copy of information submitted to electric utility provider
 2. Copy of correspondence from electric utility provider
 3. Date by which existing panel capacity expected to be insufficient to charge or fuel ZEFs (if applicable)

***Total does not include forklifts designated as low-use, dedicated emergency and awaiting sale, scrap or relocation**

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LOGGING INTO DOORS

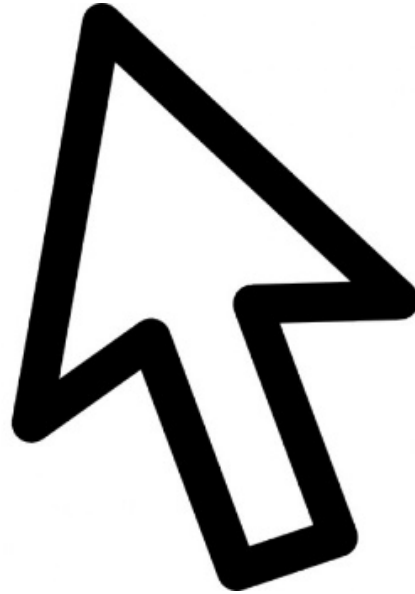
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LOGGING INTO DOORS

- Create a shareable password
- Retrieve your password with your email and username
- Call or email DOORS Hotline for assistance
- **DO NOT CREATE A NEW DOORS ACCOUNT!**

DOORS Login

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CREATING A ZEF FLEET

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CREATING A ZEF FLEET

- Forklift Fleet Owner Information page
- Enter entity information
 - Name
 - Type
 - Phone number
 - Email Address
 - Address
 - Responsible Official Information
 - Designated Official Information (optional)
- Yes or no – State or local government fleet?
- Role description (check all that apply)
- Special Fleet Designations (if applicable, optional)
- Link an existing LSI fleet (optional)
- Save Data

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RESPONSIBLE OFFICIAL

For a municipality, state, or other public agency:
either a principal executive officer or ranking
elected official.

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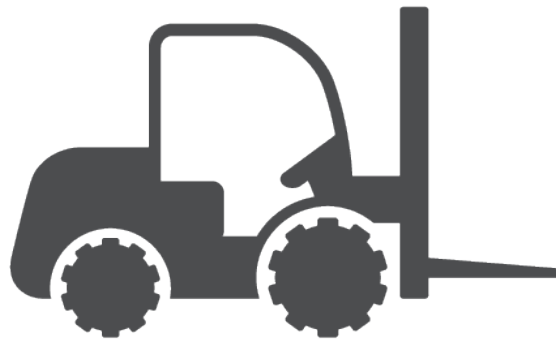
REPORTING FACILITY AND PANEL CAPACITY INFORMATION

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REPORTING FACILITY AND PANEL CAPACITY INFORMATION

1. "Facilities" tab
2. "Add New facility"
3. Enter Facility information
 - Name
 - Address
 - Contact Person
4. "Submit"
5. Scroll down to view facilities added
6. Answer "Panel Capacity" information and click "Submit"

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REPORTING FORKLIFT INFORMATION

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REPORTING FORKLIFT INFORMATION

- Fleets must report and label LSI forklifts ONLY under certain provisions of the regulation including:
 - Small fleets opting to utilize the Alternative Phase-Out Schedule
 - Fleets utilizing the Phase-Out Percentage Cap provision
 - Fleets utilizing certain exemptions and extensions

Fleets that are not utilizing these provisions, exemptions or extensions do NOT need to report forklift information.

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REPORTING FORKLIFT INFORMATION

- Forklift information to report:
 - Forklift manufacturer
 - Forklift model
 - Forklift serial number
 - Forklift class
 - Rated capacity
 - Powertrain type (LSI, battery electric, or fuel-cell electric); and
 - For LSI forklifts:
 1. Engine model year
 2. Engine manufacturer
 3. Engine model
 4. Engine Serial number

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EXEMPTIONS

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EXEMPTIONS

- Before submitting the forklift information, fleets have the option of designating the forklift under an exemption
- If utilizing an exemption, fleets may be required to report additional information such as hour meter readings
- Exemptions include:
 - Low-Use
 - Dedicated Emergency Forklifts
 - In-Field Forklifts (Agriculture)
- Designate the forklift by choosing one of the selections and entering an “Effective Year,” then click “Submit”

See exemptions in Section 3007 for more information

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LOW USE DESIGNATION

- Fleets have the option to designate LSI forklifts used less than 200 hours per calendar year as low-use under “Special Exemptions” when reporting forklifts
- LSI forklifts are **exempt** from phase-out requirements
- LSI forklifts must not be operated as low-use beyond December 31, 2030

Report as Eligible for Special Exemption - Requires Additional Annual Reporting

If this forklift qualifies for an exemption to the phase-out requirement, indicate for which exemption it qualifies. Operational restrictions and additional annual hour meter reading reporting requirements may apply.

- **Low-Use Exemption:** Forklift use must be less than 200 hours a year. Annual hour meter reporting required. Starting in 2031, this provision will no longer be available.
- **Dedicated Emergency:** Non-emergency must be less than 200 hours a year. Hour meter reporting annually and per emergency incident required.
- **Agricultural In-Field:** Non-agricultural use must be less than 200 hours a year. Hour meter readings must be taken to demonstrate that non-agricultural use is less than 200 hours per year. Records must be kept for 5 years.

Apply an exemption to this forklift?

No exemption ▾

No exemption

Low Use - 199 hours

Dedicated Emergency

In-Field (Agricultural)

Submit Cancel

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SUBMITTING DISCUSSIONS WITH ELECTRIC UTILITY PROVIDER

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SUBMITTING DISCUSSIONS WITH ELECTRIC UTILITY PROVIDER

- Submit the following information per Section 3009(d)(1)(E) for each separately metered building or operating location with LSI forklifts subject to phase-out requirements:
 1. Copy of information submitted to electric utility provider per Section 3006(c);
 2. Copy of confirmation provided by electric utility provider demonstrating the information has been received; and
 3. If applicable, date by which existing panel capacity expected to be insufficient to charge or fuel ZEFs (completed on "Facilities" tab on DOORS)

Send the initial contact, response from the electric utility provider and ZEF DOORS ID to zeforklifts@arb.ca.gov before initial report due date

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SUBMITTING THE INITIAL REPORT

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SUBMITTING THE INITIAL REPORT

- Review and confirm Owner Information is correct
- Enter total number of Class IV LSI forklifts*
- Enter total number of Class V LSI forklifts*
- Review and confirm Fleet Information is correct
- Request Personal Identification Number (PIN)
- Electronically submit initial report

***Do not include exempt forklifts**

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Contact Us:

DOORS Hotline: (877)593-6677

zeforklifts@arb.ca.gov



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