

Monterey Bay Air Resources District Diesel Engine & Equipment Replacement Grant Program



Public Workshop Presentation

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Workshop Purpose/Outline

Purpose

Increase chances of a project's success by encouraging the completion of thorough and accurate applications.

Outline

- Introduction
- Funding Sources
- Project Eligibility
- Project Types
- Project Evaluations & Ranking Process
- Application Tips
- Questions
- Demonstration

What is the Diesel Engine & Equipment Replacement Program?

“Provides grant funding to encourage the voluntary purchase of cleaner-than-required engines, equipment, and emission reductions technologies.”

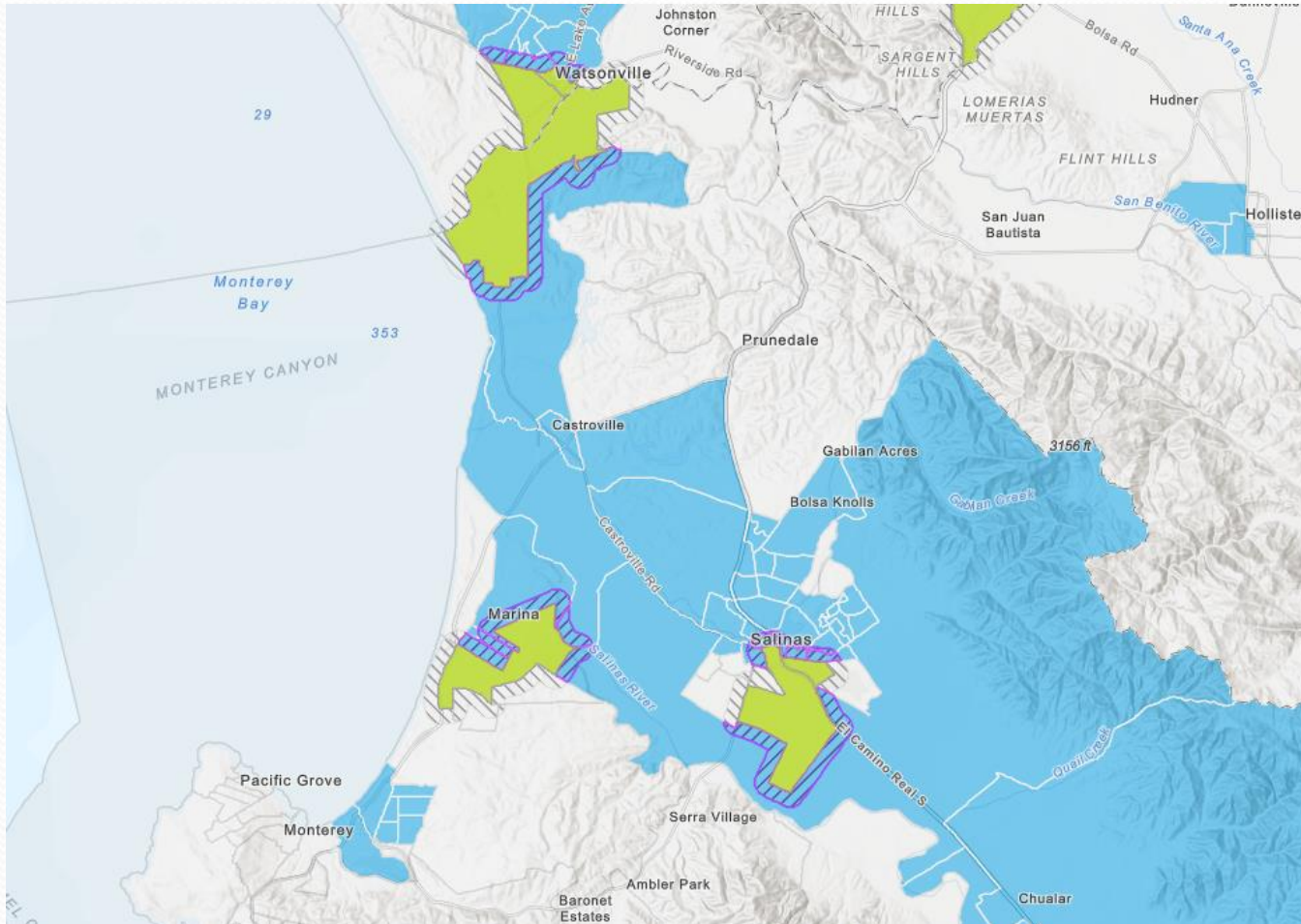
- Carl Moyer Program Guidelines

Complements regulations to obtain early or “surplus” emissions reductions
(not otherwise achieved through regulations)

Funding Sources

- Carl Moyer Memorial Grant Program (**Moyer or CMP**)
- Funding Agricultural Replacement Measures for Emission Reductions Program (**FARMER**)
 - ~\$2 Million allocated (combined)
- Community Air Protection Program (**CAPP**)
 - Focus is to reduce exposure in communities most impacted by air pollution
 - Eligible projects funded as funding becomes available
 - Incentives up to 90% or \$200,000 of replacement costs, whichever is less

CAPP Priority Areas



California Climate Investments Priority Populations 2026

Eligibility Criteria: All Project Categories

- Taken NO ACTION to procure, order, take delivery of, or purchase replacement equipment until a grant offer has been made and the contract has been fully executed
- Project must provide surplus emission reductions
- In compliance and in good standing with CARB and MBARD regulations
- Baseline equipment (to be replaced) must be operational
- Operation based within District
 - 75% of use must be in CA (for mobile/portable equipment)
- Only two active contracts per Grantee at any time
 - Potential Case-by-Case Exceptions:
 - 1) CAPP eligible zero-emission projects
 - 2) Replacing contracts within 6 months of expiration
 - 3) Electrification projects – contact MBARD!

Eligibility Criteria: All Project Categories

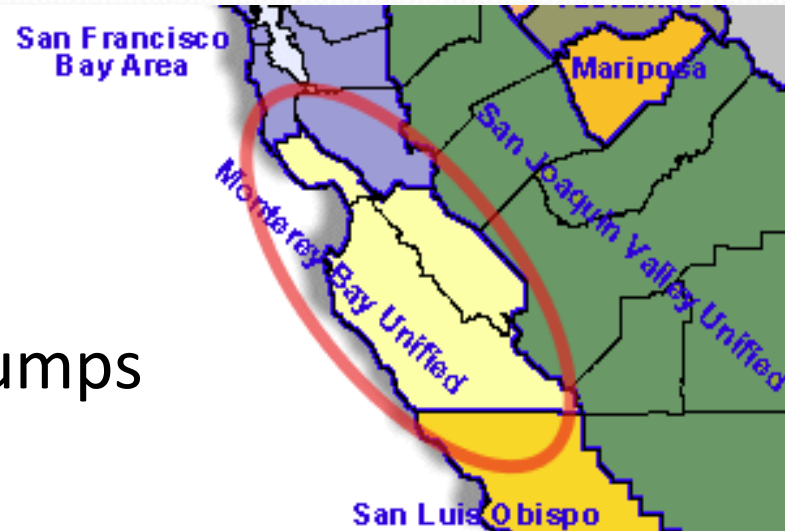
- **Required Documentation:**

- **Ownership** – owned in CA for the previous 2 years
 - **Usage** – most recent 2 years of usage records (in hours)
 - **Operation** – equipment was operational in previous year
 - **DOORS Snapshot** – only required for non-agricultural projects
- **LEGIBLE** maintenance or service records/logs, repair or work orders, registration, bill of sale, employee timesheets, inspections, etc.
 - **Itemized Quote**

NOTE! At least **50 hours** must have been accrued in the **12 months** prior to date of contract offer.

Project Types

- Agricultural Irrigation Pumps
- Marine Vessels
- Mobile Off-Road Equipment



Irrigation Pumps



Irrigation Pumps

Eligibility: Irrigation Pump Electrification

- Engine must be ≥ 20 horsepower
- Engine must be registered with MBARD
 - Not Registered? Contact MBARD Engineering (831) 718-8018
- Max Incentive = 85% of new pump

Marine Vessels



Marine Vessels

Eligibility: Marine Vessel

- Operating hour meter
- 2 years documented usage in California
- Compliance with Commercial Harbor Craft Regulations
- Incentive funds: 50% of replacement cost up to \$150,000

Mobile Off-Road



Mobile Off-Road

Eligibility: Mobile Off-Road

- ≥ 25 horsepower for agricultural projects (20 hp if ZE)
- No minimum hp required for non-agricultural projects
- Equipment registered in DOORS (except 100% agricultural)
- Maximum funding is 50% (up to \$150,000)
 - Max. of 85% for Electrification Projects

Project Evaluation & Ranking Process

- Check eligibility
- Rank projects
- Ranking priorities:
 1. Electrification
 2. Priority Populations
 3. Cost Effectiveness (\$ per ton of emissions reduced)
 - Engine Tier: 1 to 4 Final
 - Baseline: average hours used per year
 - Baseline: hp
 - New equipment: cost

2025 Ranking by Annual Emissions

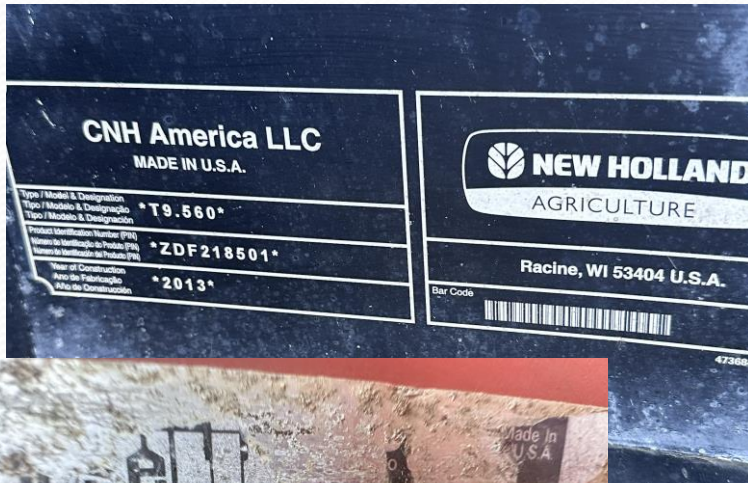
2025 Diesel Engine & Equipment Replacement Program Application Ranking List*

| Rank By CE | Grantee | Notes | Electric | Potential Grant | CE (\$/Ton) | Total Reduced (Tons) | Project Life (yrs) | Disadvantaged Community | Low Income Area | 1/2 Mile Buffer |
|------------|---|------------------------|----------|-----------------|--------------|----------------------|--------------------|-------------------------|-----------------|-----------------|
| 1 | Wilbur-Ellis Company | Drone | yes | \$ 108,177.46 | \$ 34,000.00 | 0.34 | 10 | yes | yes | no |
| 2 | San Lorenzo Valley USD | TBD | yes | \$ 32,495.00 | \$ 32,045.95 | 0.11 | 10 | no | yes | no |
| 3 | D'Arrigo Brothers Co. of CA | Forklift | yes | \$ 150,000.00 | \$ 32,106.02 | 1.20 | 4 | no | no | yes |
| 4 | True Leaf #2 | Forklift | yes | \$ 150,000.00 | \$ 29,293.35 | 1.31 | 4 | no | no | no |
| 5 | True Leaf #1 | Forklift | yes | \$ 150,000.00 | \$ 29,871.40 | 0.87 | 6 | no | no | no |
| 6 | William Barry Perkins (Gemini) | Marine (Contact MBARD) | yes | | | | | | | |
| 7 | Blanco Farms #1 | Agriculture | no | \$ 76,548.00 | \$ 7,700.33 | 3.38 | 3 | no | yes | yes |
| 8 | Blanco Farms #2 | Agriculture | no | \$ 74,493.00 | \$ 10,253.98 | 2.47 | 3 | no | yes | yes |
| 9 | Ramirez Jr Berry Farms #2 | Agriculture | no | \$ 41,745.00 | \$ 1,466.95 | 3.02 | 10 | no | yes | no |
| 10 | Alejandro Ramirez Farms #1 | Agriculture | no | \$ 41,745.00 | \$ 1,760.47 | 2.51 | 10 | no | yes | no |
| 11 | Coast King Equipment #2 | Agriculture | no | \$ 150,000.00 | \$ 3,441.41 | 14.82 | 3 | no | yes | no |
| 12 | Coast King Equipment #1 | Agriculture | no | \$ 150,000.00 | \$ 3,710.12 | 13.75 | 3 | no | yes | no |
| 13 | Ippolito International #2 | Agriculture | no | \$ 76,548.00 | \$ 5,844.73 | 4.45 | 3 | no | yes | no |
| 14 | Mendoza Growers #1 | Agriculture | no | \$ 47,526.00 | \$ 6,633.13 | 2.44 | 3 | no | yes | no |
| 15 | Gowan Seed #2 | Agriculture | no | \$ 65,249.00 | \$ 8,056.32 | 2.75 | 3 | no | yes | no |
| 16 | Gowan Seed #1 | Agriculture | no | \$ 65,249.00 | \$ 8,364.40 | 2.65 | 3 | no | yes | no |
| 17 | Ag Equipment #1 | Agriculture | no | \$ 76,552.00 | \$ 9,254.05 | 2.81 | 3 | no | yes | no |
| 18 | Amaral Agricultural Equipment #2 | Agriculture | no | \$ 61,591.00 | \$ 10,155.73 | 2.06 | 3 | no | yes | no |
| 19 | Henry Hibino Farms #2 | Agriculture | no | \$ 150,000.00 | \$ 10,621.28 | 4.80 | 3 | no | yes | no |
| 20 | Henry Hibino Farms #1 | Agriculture | no | \$ 150,000.00 | \$ 11,383.84 | 4.48 | 3 | no | yes | no |
| 21 | Alejandro Ramirez Farms #2 | Agriculture | no | \$ 150,000.00 | \$ 11,485.19 | 9.41 | 3 | no | yes | no |
| 22 | Pedrazzi Farms #2 | Agriculture | no | \$ 86,313.00 | \$ 11,850.31 | 2.48 | 3 | no | yes | no |
| 23 | SJR Ranch #1 | Agriculture | no | \$ 61,729.00 | \$ 12,281.52 | 1.71 | 3 | no | yes | no |
| 24 | Coastal View Packing | Agriculture | no | \$ 74,493.00 | \$ 13,178.88 | 1.92 | 3 | no | yes | no |
| 25 | Pedrazzi Farms #1 | Agriculture | no | \$ 150,000.00 | \$ 13,660.01 | 3.73 | 3 | no | yes | no |
| 26 | Marc Pura Ranch | Agriculture | no | \$ 84,720.00 | \$ 13,705.12 | 3.72 | 3 | no | yes | no |
| 27 | Amaral Agricultural Equipment #1 | Agriculture | no | \$ 61,591.00 | \$ 13,728.04 | 1.53 | 3 | no | yes | no |
| 28 | Mendoza Growers #2 | Agriculture | no | \$ 150,000.00 | \$ 15,643.61 | 3.26 | 3 | no | yes | no |
| 29 | The Dune Company of Salinas #2 | Agriculture | no | \$ 110,459.00 | \$ 16,237.46 | 2.31 | 3 | no | yes | no |
| 30 | Dream Farm | Agriculture | no | \$ 56,935.00 | \$ 17,595.95 | 1.10 | 3 | no | yes | no |
| 31 | SJR Ranch #2 | Agriculture | no | \$ 150,000.00 | \$ 18,211.26 | 2.80 | 3 | no | yes | no |
| 32 | Sea Mist Farms | Agriculture | no | \$ 150,000.00 | \$ 19,708.47 | 2.59 | 3 | no | yes | no |
| 33 | Ag Equipment #2 | Agriculture | no | \$ 62,550.00 | \$ 22,186.41 | 0.96 | 3 | no | yes | no |
| 34 | Christensen & Giannini #1 | Agriculture | no | \$ 84,720.00 | \$ 22,635.36 | 1.27 | 3 | no | yes | no |
| 35 | Christensen & Giannini #2 | Agriculture | no | \$ 87,289.00 | \$ 26,125.60 | 1.14 | 3 | no | yes | no |
| 36 | The Dune Company of Salinas #1 | Agriculture | no | \$ 89,906.00 | \$ 26,237.51 | 1.46 | 4 | no | yes | no |
| 37 | Ippolito International #1 | Agriculture | no | \$ 150,000.00 | \$ 27,432.22 | 1.86 | 3 | no | yes | no |
| 38 | Blue Ocean Whale Watch (High Spirit) | Marine | no | \$ 128,347.00 | \$ 29,750.17 | 1.47 | 3 | no | yes | no |
| 39 | Hitchcock Farms #1 | Agriculture | no | \$ 150,000.00 | \$ 31,284.32 | 0.71 | 7 | no | yes | no |
| 40 | Neil Bassetti Farms | Agriculture | no | \$ 150,000.00 | \$ 31,464.60 | 1.62 | 3 | no | yes | no |
| 41 | A.W. Johnson & Son | Agriculture | no | \$ 150,000.00 | \$ 33,106.20 | 0.48 | 10 | no | yes | no |
| 42 | Mesa Vineyard Management #1 | Agriculture | no | \$ 150,000.00 | \$ 33,516.36 | 1.52 | 3 | no | yes | no |
| 43 | Mesa Vineyard Management #2 | Agriculture | no | \$ 150,000.00 | \$ 33,812.39 | 0.66 | 7 | no | yes | no |
| 49 | Salinas Valley Solid Waste Authority #3 | Construction | no | \$ 97,132.00 | \$ 34,000.00 | 0.59 | 5 | no | yes | no |
| 48 | Salinas Valley Solid Waste Authority #2 | Construction | no | \$ 77,805.00 | \$ 34,000.00 | 0.47 | 5 | no | yes | no |
| 47 | Randazzo Enterprises | Construction | no | \$ 37,098.78 | \$ 34,000.00 | 0.37 | 3 | no | yes | no |
| 46 | ASA Organics #2 | Agriculture | no | \$ 109,384.00 | \$ 34,000.00 | 0.34 | 10 | no | yes | no |
| 45 | Ramirez Jr Berry Farms #1 | Agriculture | no | \$ 91,172.00 | \$ 34,000.00 | 0.28 | 10 | no | yes | no |
| 44 | ASA Organics #1 | Agriculture | no | \$ 82,075.00 | \$ 34,000.00 | 0.26 | 10 | no | yes | no |
| 50 | People's Choice | Agriculture | no | \$ 74,744.00 | \$ 17,694.19 | 2.49 | 3 | no | no | no |
| 51 | Estrada TLC | Agriculture | no | \$ 50,107.00 | \$ 29,424.10 | 0.29 | 6 | no | no | no |
| 52 | Anthony Lico | Agriculture | no | \$ 150,000.00 | \$ 30,306.35 | 1.27 | 4 | no | no | no |
| 53 | Nelson Diving Center (Beach Hopper II) | Marine | no | \$ 29,613.00 | \$ 30,518.73 | 0.32 | 5 | no | no | no |

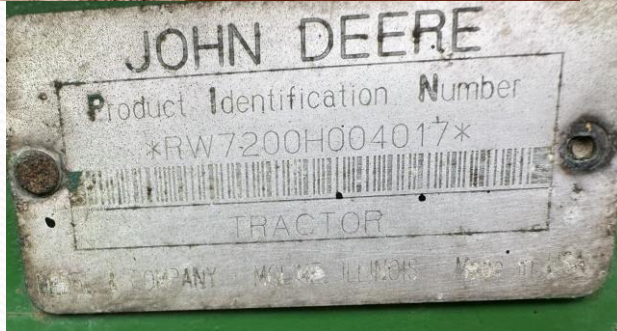
Application Tips

- Complete all required fields (*)
- Ownership, usage, and operationality documents may be the same
- 2 applications per EIN or tax ID
- 2-for-1 replacements are eligible
- You can save drafts
- Max file size = 25 MB
- You do not need to be first – applications are ranked
- **Rankings will change and do not guarantee funding!**

Tractor Equipment ID Plates



Case



Mobile Off-Road

Engine Serial Number Plates

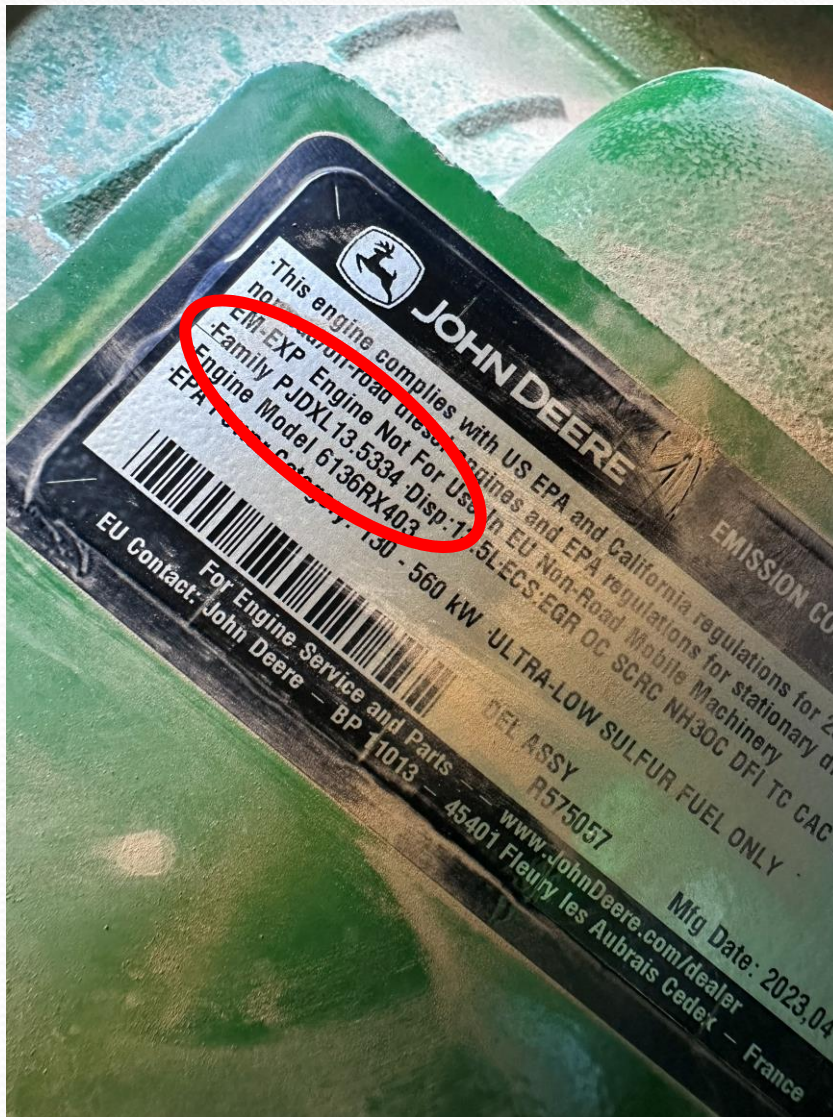
New Holland/
Cummins



Mobile Off-Road

Emission Control Label

Engine Family: PJDXL13.5334



Mobile Off-Road

Engine Tier

1. Emission Control Label
2. Manufacturer's website
3. Dealership
4. California Air Resources Tier "Color Chart"

| hp (kw) | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015+ |
|---|------|--|---|---|------|--|---------------------------------------|------|---------------------------------------|---------------------------------------|------|---|-------------------------------|---|------|------|--|---|-----------------------------------|---|--|
| ≥ 50 (37) < 75 (55.5) | | | | N/A ⁽¹⁾ 6.9 (9.2) N/A N/A | | | | | | 5.6 (7.5) 3.7 (5.0) 0.30 (0.40) | | | | 3.5 (4.7) 3.7 (5.0) 0.22 ⁽²⁾ | | | | | 3.5 3.7 0.02 ⁽²⁾ | | |
| ≥ 75 (55.5) < 100 (75) | | | | N/A ⁽¹⁾ 6.9 (9.2) N/A N/A | | | | | | 5.6 (7.5) 3.7 (5.0) 0.30 (0.40) | | | | 3.5 (4.7) 3.7 (5.0) 0.3 | | | | 0.14 2.5 3.7 0.01 ^{(3),(4)} | | | 0.14 0.29 3.7 0.01 ⁽³⁾ |
| ≥ 100 (75) < 175 (130) ⁽⁴⁾ | | | N/A ⁽¹⁾ 6.9 (9.2) N/A N/A | | | | | | 4.9 (6.6) 3.7 (5.0) 0.22 (0.30) | | | | 3.0(4.0) 3.7 (5.0) 0.22 | | | | | 0.14 2.5 3.7 0.01 ^{(3),(4)} | | | 0.14 0.29 3.7 0.01 ⁽³⁾ |
| ≥ 175 (130) < 300 (225) ⁽⁴⁾ | | 1.0 (1.3) ⁽³⁾ 6.9 (9.2) 8.5 (11.4) 0.40 (0.54) | | | | | | | 4.9 (6.6) 2.6 (3.5) 0.15 (0.20) | | | 3.0 (4.0) 2.6 (3.5) 0.15 ⁽³⁾ | | | | | 0.14 1.5 2.6 0.015 ^{(3),(4)} | | | 0.14 0.3 2.6 0.01 ⁽³⁾ | |
| ≥ 300 (225) < 600 (450) ⁽⁴⁾ | | 1.0 (1.3) ⁽³⁾ 6.9 (9.2) 8.5 (11.4) 0.40 (0.54) | | | | | 4.8 (6.4) 2.6 (3.5) 0.15 (0.20) | | | | | 3.0 (4.0) 2.6 (3.5) 0.15 ⁽³⁾ | | | | | 0.14 1.5 2.6 0.015 ^{(3),(4)} | | | 0.14 0.3 2.6 0.01 ^{(3),(4)} | |
| ≥ 600 (450) ≤ 750 (560) ⁽⁴⁾ | | 1.0 (1.3) ⁽³⁾ 6.9 (9.2) 8.5 (11.4) 0.40 (0.54) | | | | | 4.8 (6.4) 2.6 (3.5) 0.15 (0.20) | | | | | 3.0 (4.0) 2.6 (3.5) 0.15 ⁽³⁾ | | | | | 0.14 1.5 2.6 0.015 ^{(3),(4)} | | | 0.14 0.3 2.6 0.01 ^{(3),(4)} | |
| > 750 (560) ⁽⁴⁾ | | | | | | 1.0 (1.3) ⁽³⁾ 6.9 (9.2) 8.5 (11.4) 0.40 (0.54) | | | | | | 4.8 (6.4) 2.6 (3.5) 0.15 (0.20) | | | | | 0.3 2.6 2.6 0.07 ⁽³⁾ | | | | 0.14 2.6 2.6 0.03 ⁽³⁾ |



Tier 1
Tier 2
Tier 3



Interim Tier 4
Final Tier 4

DOORS Snapshot Example

California Environmental Protection Agency
Air Resources Board

DOORS Home | Message Center | e-ROAR and Other Tools | HI [redacted] | Log Out

Owner Information | Vehicle & Engine | VDECS | Compliance Snapshot

Engine Repower | Low-Use | Vehicle Funding | Non Standard Engine | Non Diesel Engine | Long-Term Rental

DOORS ID: [redacted] Company Name: [redacted] Fleet Type: Off-Road Diesel

DOORS Disclaimer

Fleet Compliance Snapshot
As of: Today (May 8, 2018) Refresh Fleet Data

Your fleet, as currently reported, has met the off-road regulation performance requirements through the January 1, 2023 compliance date. Per regulation section 2449.1, you will need to take action prior to December 31, 2023 in order for your fleet to be in compliance on January 1, 2024. Your first fleet compliance date has been extended due to the smallest engine rounding provision.

*This determination is based on the make up of your CURRENT fleet in DOORS, which includes age and horsepower of engines, retrofits (if any), vehicles sold (credits, if any), exempt vehicles such as Low-Use (if any), subfleets (if any), and other credits (if any).

| Current Fleet Statistics | |
|---|--|
| Fleet Size: | Small (based on parent, DOORS ID [redacted]) |
| Number of Vehicles: | |
| In Fleet Average: | 1 |
| Low-Use: | 0 |
| Exempt Not Low-Use: | 0 |
| Vehicles in Fleet: | 1 |
| Horsepower (in fleet average): | 80 |
| Total Fleet Horsepower: | 80 |
| Family Horsepower (including all child fleets)**: | 80 |
| First Compliance Date: | January 1, 2019 |
| Next Required Compliance Date: | January 1, 2024 |

| Fleet Target and Average Emission Rates (g/bhp-hr) | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|
| January 1, Year | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
| Target | 7.1 | 6.7 | 6.2 | 5.5 | 4.8 | 4.1 | 3.4 | 2.7 | 2.0 | 1.4 |
| Average | 6.9 | | | | | | | | | |

| Requirements | |
|-----------------------------|-----|
| Your Current Fleet Average: | 6.9 |

To be in compliance each year, the fleet average must be lower than or equal to the fleet target, OR the fleet must meet the required BACT amount. For more information, please see the [FAQs on Fleet Average](#) and [BACT](#).

| Compliance Summary | | | | | | |
|--------------------|--------------|--------------------|------------|----------------|---------------------------|--------------------|
| Compliance Date | Begin Credit | Credit Use/Expired | End Credit | In Compliance? | Compliance Method | BACT Requirement |
| 2019-01-01 | 0 | 0 | 0 | yes | met fleet average | na |
| 2020-01-01 | 0 | 0 | 0 | yes | smallest engine rounding* | 10% * 80 = 8 |
| 2021-01-01 | 0 | 0 | 0 | yes | smallest engine rounding* | 8 + 10% * 80 = 16 |
| 2022-01-01 | 0 | 0 | 0 | yes | smallest engine rounding* | 16 + 10% * 80 = 24 |
| 2023-01-01 | 0 | 0 | 0 | yes | smallest engine rounding* | 24 + 10% * 80 = 32 |
| 2024-01-01 | 0 | 0 | 0 | no | action need | 32 + 10% * 80 = 40 |
| 2025-01-01 | 0 | 0 | 0 | no | action need | 10% * 80 = 8 |
| 2026-01-01 | 0 | 0 | 0 | no | action need | 10% * 80 = 8 |
| 2027-01-01 | 0 | 0 | 0 | no | action need | 10% * 80 = 8 |
| 2028-01-01 | 0 | 0 | 0 | no | action need | 10% * 80 = 8 |

* BACT requirement will be postponed to next year. Refer to regulation [section 2449.1\(b\)\(6\)](#)

REQUIRED FOR NON-AG ONLY

Question & Answer

Application: MBARD.org/Grants/Diesel Engine & Equipment Replacement Program

Resources on DEERP webpage:

- CARB Program Guidelines
- Compliance Assistance for Off-Road Diesel Regulation (non-ag construction equipment)
- Commercial Harbor Craft Regulations
- MBARD DEERP mailing list link
- Map tool for CAPP Priority Population projects
- CARB Executive Order website (for Engine Family)
- CARB Tier Color Chart



Find resources and web links on the MBARD DEERP webpage

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**DEMONSTRATION:
LASERFICHE
ONLINE APPLICATION**