



Introduction to Statewide Strategies

Arvin Lamont
Community Steering Committee Meeting

December 8, 2021

Today's Presentation:

1. Explain CARB's role in reducing emissions
2. Discuss current statewide emission reduction strategies that apply to concerns in the Arvin/Lamont area
3. Present ways to engage with the new regulatory development process

Goals and outcomes

#1: Understanding CARB commitments to reduce emissions through state strategies

- a. What program benefits you want CARB to track for the Arvin Lamont CERP?
- b. Help decide what NEW strategies to include in the CERP.

#2: Support participation in the public process for CARB regulations

- a. Represent your community's voice and needs independent of your CSC role
- b. Potentially, influence the timing or geographic focus of a regulation
- c. Request more information from CARB staff on specific issues important to the community

Air Quality Agencies

Federal



United States Environmental Protection Agency

Sets and enforces national air quality standards. Regulates interstate transportation.



Trains



Ships



Planes

State



California Air Resources Board (CARB)

Regulates mobile sources of air pollution, greenhouse gases, and consumer products



Cars



Trucks



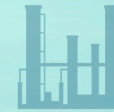
Buses

Local



Local Air District (SJV – Valley Air)

Regulate stationary and local sources of air pollution



Refineries



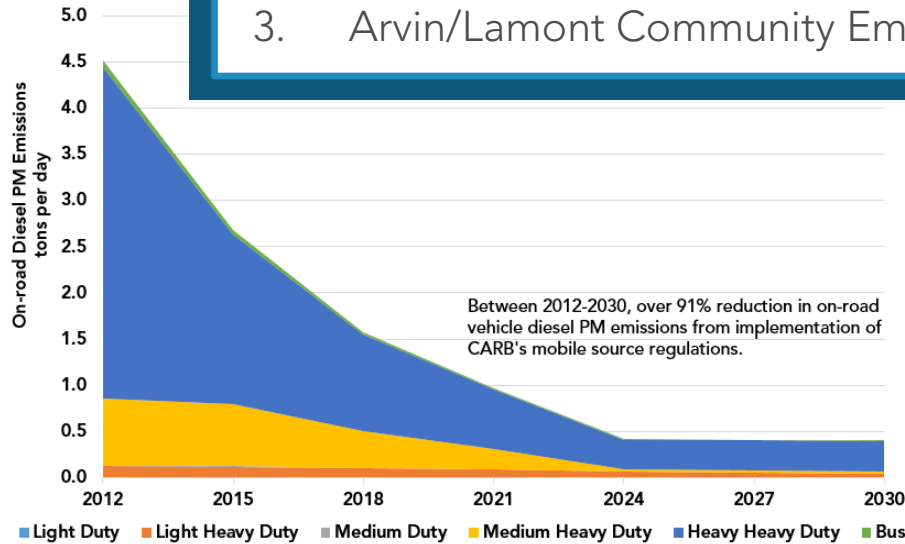
Residential woodstoves



Dust

Emission Reductions in Arvin/Lamont

1. Current measures to reduce air pollutants
2. AB 617 Statewide Strategy (Blueprint, Appendix F)
3. Arvin/Lamont Community Emission Reduction Programs (CERP)



Projected Emissions: On-road Vehicles Diesel PM in SJV

APPENDIX F. STATEWIDE STRATEGIES, TOOLS, AND RESOURCES

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COMMUNITY AIR PROTECTION PROGRAM

F-1

ORNIA
RESOURCES BOARD

Community Air Protection BLUEPRINT

Communities, Preparing
Emissions Reduction Programs,
Statewide Strategies, and
Community Air Monitoring

CARB's 3 Main Tools/Strategies

Regulations

TODAY'S 1ST
PRESENTATION:



Limits, targets, and other mandatory standards

Incentives



Accelerate the deployment of cleaner technologies

Enforcement

TODAY'S 2ND
PRESENTATION:



Ensure compliance with rules and regulations



CARB Regulations: Statewide Strategies for Mobile Sources



Emission Reductions in Existing Equipment

- Heavy-Duty On-Board Diagnostics
- Low NOx Engine Standard
- Heavy-duty Inspection and Maintenance
- Locomotive Regulation

New equipment Transition to Zero Emissions

- Advanced Clean Trucks
- Advanced Clean Fleets
- Advanced Clean Cars 2
- Small Off-road Engine Regulations
- Transportation Refrigeration Units



Statewide Measures

CARB Statewide Measure	Latest/Upcoming Activities
Heavy-Duty Low NOx Omnibus	Adopted at CARB Board – Aug. 2020
Advanced Clean Trucks	Adopted at CARB Board - July 2020
Advanced Clean Fleets	Workgroup meetings Dec 16 – Jan 19
Heavy-Duty Inspection & Maintenance	Draft regulation released - December 9th Board Meeting
Advanced Clean Cars 2	August and October workshops
Composite Wood Control Measure	ATCM amendments in development – workshop planned for early 2022
Draft In-use Locomotive Regulation	Draft regulatory documents and cost analysis released for public comment
Real Emissions Assessment Logging System	Adopted by CARB Board – Nov. 2018
Small Off-Road Engines	Proposed amendments released - December 9th Board Meeting
In-use Diesel Transport Refrigeration Units	Resolution published September 2021

For details and to find additional regulations in process: <https://ww2.arb.ca.gov/capp-communities>

**See detailed Statewide Strategies at the
end of the presentation**

Finding more information

Community Air Protection Program Communities

Community Air Protection Program

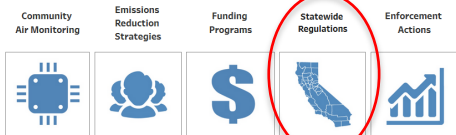
- About
- News
- Resources
- Events
- Community Air Protection Program Resource Center
- AB 617 Consultation Group
- AB 617 Annual Reporting and Progress Tracking
- Documentos en Español
- Communities
 - Arvin, Lamont
 - Calexico, El Centro, Heber
 - East Los Angeles, Boyle Heights, West Commerce
 - Eastern Coachella Valley
 - Portside Environmental Justice Neighborhoods
 - Richmond - San Pablo
 - San Bernardino, Muscog
 - Shafter
 - South Central Fresno
 - South Los Angeles
 - South Sacramento - Florin
 - Southeast Los Angeles
 - Stockton
 - West Oakland
 - Wilmington, Carson, West Long Beach
- Community Selection
- Community Air Protection Blueprint
- Community Air Grants
- Environmental Justice Blog
- Community Air Quality Portal

CommunityHub

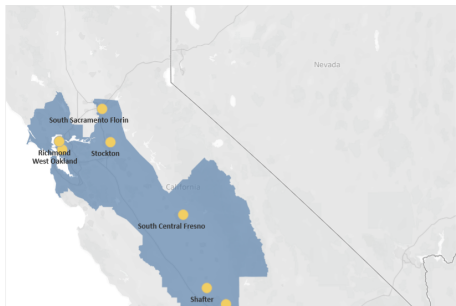
Tracking progress of CARB actions to support Assembly Bill (AB) 617.

Welcome to the CommunityHub, a dashboard tracking statewide development and progress of the AB 617 program. Each year, CARB staff partner with local air districts and community members to identify and recommend communities to develop and implement community air monitoring plans (CAMP) and community emissions reduction programs (CERP). CARB staff developed the CommunityHub to provide updated information regarding community air monitoring and implementation progress of community emissions reduction programs within the currently selected AB 617 communities.

This tool is currently under development and we are actively soliciting feedback. Please check back frequently for future updates.



Click on the map to learn more about the current AB 617 communities.



CONTACT

Community Air Protection Program
 Email: CommunityAir@arb.ca.gov
 Phone: (916) 322-7049



Community Air Protection Program Resource Center

[← BACK TO ALL PROGRAMS](#)

Community Air Protection Program Resource Center

- About
- Introduction to Community Air Quality Strategy Development
- Technical Assistance
- AB 617 Implementation
- Community Air Protection Program
- Subscribe

PRIMARY CONTACT

Community Air Protection Program
 Email: CommunityAir@arb.ca.gov
 Phone: (916) 322-7049

CATEGORIES

Division: Office of Community Air Protection

Welcome to the Community Air Protection Program Online Resource Center, a one-stop shop to obtain data, guidance, and tools to support improving air quality at the community scale. The Resource Center serves as a centralized repository of information and resources for use by community members, air districts, and the public. It will be continuously updated as new documents, materials, and data become available. The historical resource directory can be found by pressing "more about this program".

[MORE ABOUT THIS PROGRAM →](#)

New Interactive Resource Directory



Steps

- 1 Learn About AB 617
- 2 Understand Air Quality and Health
- 3 Research Current Conditions
- 4 Identify Strategies
- 5 Track Implementation

Category

- Air Monitoring
- Air Quality Background
- Community Air Protection Program
- Emissions Inventory
- Enforcement
- Funding
- Permitting
- Technology Clearinghouse

Type

- Tools to Access Data
- Training
- Video
- Webpage

Scale

- AB 617 Communities
- All Communities (Statewide)

Feedback

Reset Filters

Search:

Resource	Learn About AB 617	Understand Air Quality and Health	Research Current Conditions	Identify Strategies	Track Implementation
Air District Rules - Current			●		
Air District Rules - History			●		
Air Pollution Health Effects			●		
Air Pollution Mapping Tool		●			
Air Quality Data Statistics (AQDS)			●		
Air Quality and Meteorological Information System (AQMS)			●		
Airborne Toxics Program		●			
Ambient Air Quality Standards Designations (AAQS)			●		
BACT Determinations			●		
BACT Guidelines			●		
CARB Regulations			●		
Community Air Protection Training Videos			●		
Community Air Quality Portal (AQ View)	●				
Community Engagement Resources			●		
Community Hub			●		●
Community Identification Toolbox	●				
Community Permitting Questions			●		
Emission Factor (EMFAC) Mobile Source Inventory			●		
Emission Inventory Trends (CEPAM)			●		
Emission Inventory Trends (CEPAM)			●		
Enforcement Data Visualization System			●		●

Stationary Source Permitting	●				
Strategy Development Resources					
Technology Clearinghouse Training Videos			●		
U.S. EPA New Source Review Permit Dashboard			●		
U.S. EPA Title V Permit Dashboard			●		

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https://ww2.arb.ca.gov/ocap_resource_center

<https://ww2.arb.ca.gov/capp-communities>

Sign up to receive emails

1. Community Air Protection Program website:
 - <https://ww2.arb.ca.gov/capp>
2. Choose the programs you want to keep up with by going to Gov Delivery:
 - <https://public.govdelivery.com/accounts/CARB/subscriber/new>

1.

Community Air Protection Program BACK TO ALL PROGRAMS

Community Air Protection Program

In response to Assembly Bill (AB) 617 (C. Garcia, Chapter 136, Statutes of 2017), CARB established the Community Air Protection Program (CAPP or Program). The Program's focus is to reduce exposure in communities most impacted by air pollution. CARB staff has already begun working closely with local air districts, community groups, community members, environmental organizations, and regulated industries to develop a new community-focused action framework for community protection. We welcome and encourage your participation in this effort.

MORE ABOUT THIS PROGRAM +

PRIMARY CONTACT
Community Air Protection Program
Email CommunityAir@arb.ca.gov
Phone (916) 322-7049

CONTACTS
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To sign up for updates or to access your subscriber preferences, please enter your contact information below.

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SUBMIT CANCEL

Your contact information is used to deliver requested updates or to access your subscriber preferences.

2.

CALIFORNIA AIR RESOURCES BOARD

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Your contact information is used to deliver requested updates or to access your subscriber preferences.

New Subscriber
Subscription Type

Primary Email Address
You must enter a primary email address to use this to access and update your subscriptions or modify your subscriber preferences.

Email Address

Confirm Email Address

Email Delivery Preference
If you would like to change how subscription updates are delivered to you, select an option below.

Send updates immediately by email
 Send updates daily by email
 Send updates weekly by email

Certain high priority updates may be sent regardless of your delivery preferences.

Optional Password
Enter an optional password to add password protection to your subscriber preferences.

Password

Confirm Password

Privacy
 By checking this box, you consent to our data privacy policy.

SUBMIT CANCEL

Your contact information is used to deliver requested updates or to access your subscriber preferences.

Subscription Topics

Air Quality
 AB 179 Joint CARB & CTC Meetings
 arecomunicator
 Ambient Air Quality Standards
 Air Quality Data
 Agricultural Incentives
 Air Quality Improvement Program (AQIP 118)
 Air Quality Modeling
 Altmaric News
 Alternative Fuels
 Area Designations for State Standards
 California Hydrogen
 CALGRID Model
 California Air Response Planning Alliance
 Enhanced Fleet Modernization Program - Car Carp
 Community Air
 Green Management Practices - Production Process



Discussion

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Community Air Protection Program

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Heavy-Duty Low NOx Reduction Strategy

What is it?

- Comprehensive overhaul of existing regulations to ensure future truck engines are low emitting when new and in-use throughout their regulated useful life

Who is regulated?

- Applies to 2024 and subsequent MY engines used in vehicles greater than 10,000 lbs GVWR.
- A wider range of truck operation
 - Vehicle Idle, Port, Traffic, and Highway Speeds

How are they regulated?

- Low NOx standard
 - 2024-2026 MY NOx: 75% below current
 - 2027+ MY NOx : 90% below current
- Improved in-use compliance testing requirements
- Longer warranty and useful life requirements
- Incentives for early introduction of cleaner engines and technology

Advanced Clean Truck Regulation

What is it?

- The regulation is part of a holistic approach to accelerate a large-scale transition of zero-emission medium- and heavy-duty vehicles from Class 2b to Class 8

Who is regulated?

- Any manufacturer that certifies and sells on-road vehicles over 8,500 lbs. GVWR in California

How are they regulated?

- Requires manufacturers to sell zero-emission trucks beginning with 2024 MY – sales % increases over time



Proposed Advanced Clean Fleets Regulation

What is it?

- A medium and heavy-duty zero-emission fleet regulation with the goal of achieving a zero-emission truck and bus California fleet by 2045 wherever feasible
- 100% zero-emission vehicle sales requirement by 2040

Who is regulated?

- Drayage trucks, public agencies, federal governments, and high-priority fleets that own or control trucks, buses, and shuttles

How are they regulated?

High Priority Fleets

- Begin phase-in zero-emission vehicles 2025 and achieve 100% zero-emission for all box trucks, vans, buses & yard tractors by 2035

Public fleets

- New vehicle purchases must be zero-emission 50% in 2024; 100% in 2027

Manufacturers

- 100% zero-emission vehicle sales requirement by 2040

Drayage trucks

- New registration in 2023 be zero-emissions
- Intermodal railyards and seaports operations 100% zero emissions by 2035



Heavy-Duty Vehicle Inspection and Maintenance Program

What is it?

- A new, comprehensive program – like Smog Check for big trucks

Who is regulated?

- Applies to diesel and alternate fuel heavy-duty vehicles over 14,000 lbs. operating in California including out-of-state vehicles

How are they regulated?

- 1st phase starts in 2023 with remote emissions monitoring in disadvantaged communities
- 2nd phase starts no earlier than July 2023 and links to DMV registration and compliance certificate enforcement
- 3rd phase (full implementation) starts no earlier than January 2024 with periodic compliance testing

Tomorrow, December 9, 9 am: CARB Board Hearing on Full HD I/M Proposal

Notice: <http://ww2.arb.ca.gov/rulemaking/2021/hdim2021#anchor> Board Agenda: <https://ww2.arb.ca.gov/ma120921>



Regulation: <https://ww2.arb.ca.gov/our-work/programs/heavy-duty-inspection-and-maintenance-program>

Subscribe to Statewide Measures

CARB Statewide Measure	Latest/Upcoming Activities	Link to subscribe to updates
Heavy-Duty Low NOx Omnibus	Adopted at CARB Board – Aug. 2020	https://ww2.arb.ca.gov/rulemaking/2020/hdomnibuslownox
Advanced Clean Trucks	Adopted at CARB Board - July 2020	https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks
Advanced Clean Fleets	Workgroup meetings Dec 16 – Jan 19	https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=zevfleet
Heavy-Duty Inspection & Maintenance	Draft regulation released - December 9th Board Meeting	https://ww2.arb.ca.gov/our-work/programs/inspection-and-maintenance-program/Meetings-and-Workshops
Advanced Clean Cars 2	August and October workshops	https://ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/advanced-clean-cars-ii-meetings-workshops
Composite Wood Control Measure	ATCM amendments in development – workshop planned for early 2022	https://ww2.arb.ca.gov/resources/documents/compwood-meetings-workshops
Draft In-use Locomotive Regulation	Draft regulatory documents and cost analysis released for public comment	https://ww2.arb.ca.gov/our-work/programs/reducing-rail-emissions-california
Real Emissions Assessment Logging System	Adopted by CARB Board – Nov. 2018	https://ww2.arb.ca.gov/our-work/programs/ghg-std-md-hd-eng-veh
Small Off-Road Engines	Proposed amendments released - December 9th Board Meeting	https://public.govdelivery.com/accounts/CARB/subscriber/new?topic_id=ms-mailings
In-use Diesel Transport Refrigeration Units	Resolution published September 2021	https://ww2.arb.ca.gov/rulemaking/2021/tru2021

For details and to find additional regulations in process: <https://ww2.arb.ca.gov/capp-communities>