



2021 Annual Enforcement Report

June 24, 2022

Outline

- Introduction
- Compliance Rates
- Focus on Communities
- Diesel Enforcement
- Engine and Product Requirements Enforcement
- Local Agency Collaboration
- Conclusion

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Enforcement Goals

- Ensure compliance is achieved
- Address environmental injustice
- Create a level playing field across industry
- Provide transparency

2021 Highlights

- Continued focus in disadvantaged communities
 - 12,000 vehicle and marine vessel inspections
 - 80% in disadvantaged communities
 - 12 mobile PEAQS deployments
 - 14,967 vehicles screened
 - \$6.8M in penalties diverted to SEPs
- Settled 2,746 cases and citations for \$18M

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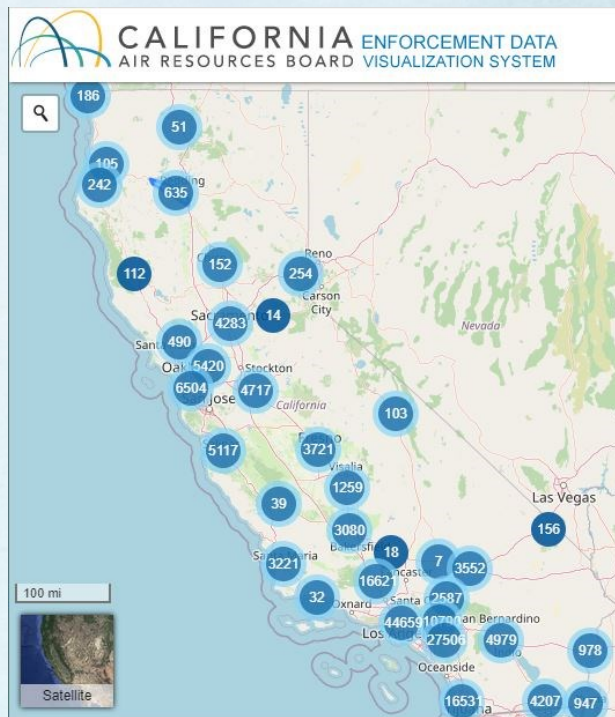
Goal and Methods

- Quantitative metrics help us continuously improve our programs
- Compliance Calculation Methods
 - Independent data sources
 - Inspection results

Enforcement Data Visualization System

- Enforcement inspections from 2015 to 2021
- Newly updated with stationary source inspections
- Provides a new way to track compliance rates over time for each program

<https://webmaps.arb.ca.gov/edvs/>



Compliance Analysis

- Inspections used to assess compliance rates
 - Results can be biased and vary year to year
 - Assess qualitatively and quantitatively
 - More accurate when tracked over time

Compliance Results

- Most programs have high compliance rates
 - Compliance rates in disadvantaged communities are equivalent to those statewide
- Some programs need more focused enforcement
 - Smoke opacity and tampering
 - Off-road equipment
 - Transportation refrigeration units (TRU)

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Addressing Community Concerns

- Direct enforcement of CARB regulations
- Administer Supplemental Environmental Projects
- Respond to community complaints
- Support AB 617 implementation
- Area focused investigations
- Multi-agency initiatives
- Collaborative, co-led, community focused approach



Supplemental Environmental Projects (SEPs)

- 16 projects funded
- \$6.8M in funds
- School air filtration systems, community air monitoring, tree plantings, education programs, etc.



Portside and Border Communities



- Conducted 25 facility inspections
- Screened 998 vehicles with PEAQS
- Inspected 34 ocean-going vessels
- Conducted three shore power audits

West Oakland



- Community tour with WOEIP
- Screened 403 vehicles with PEAQS
- Conducted 55 vehicle inspections
- Investigating three fleets

Oil and Gas Initiative

- Multiagency inspections
 - 11 total facility inspections primarily in San Joaquin Valley
 - Leaks found at 8 facilities
- Work with air districts, other agencies, and communities to investigate and resolve concerns



Engaging in Local Community Concerns

- Co-led, community driven approach
- Several pilot communities
- Focus on problem solving
 - CARB enforcement
 - Scientific approaches to data collection
 - Leverage technology and community participation
- Publicly report on lessons learned and next steps

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Truck and Bus Compliance

- High compliance rates continue statewide
- Expanded streamlined enforcement process to include:
 - Periodic Smoke Inspection Program
 - Highest emitting trucks detected by PEAQS
 - Additional fleets not compliant with Truck and Bus Rule
- Enforcement assistance from San Diego APCD

Portable Emissions AcQuisition System

- Plume capture system used to screen high emitting vehicles for further inspection or investigation

	Stationary PEAQS	Mobile PEAQS
Enforcement Strategy	Audits	Field Inspections
Number of Units/Deployments	2 – Permanent	12 – Short-term
Vehicles Screened	208,000	14,967
Vehicles Inspected	---	592
Citations Issued	---	224
Notice of Noncompliance Letters Sent	433	---

HD I/M Enforcement



- HD I/M enforcement will be expansion of existing PEAQS program
- Collaboration with other state partners to implement HD I/M requirements
- Effective January 1, 2023

Marine Enforcement

- At-Berth Regulation
- Ocean-Going Vessel Fuels Regulation

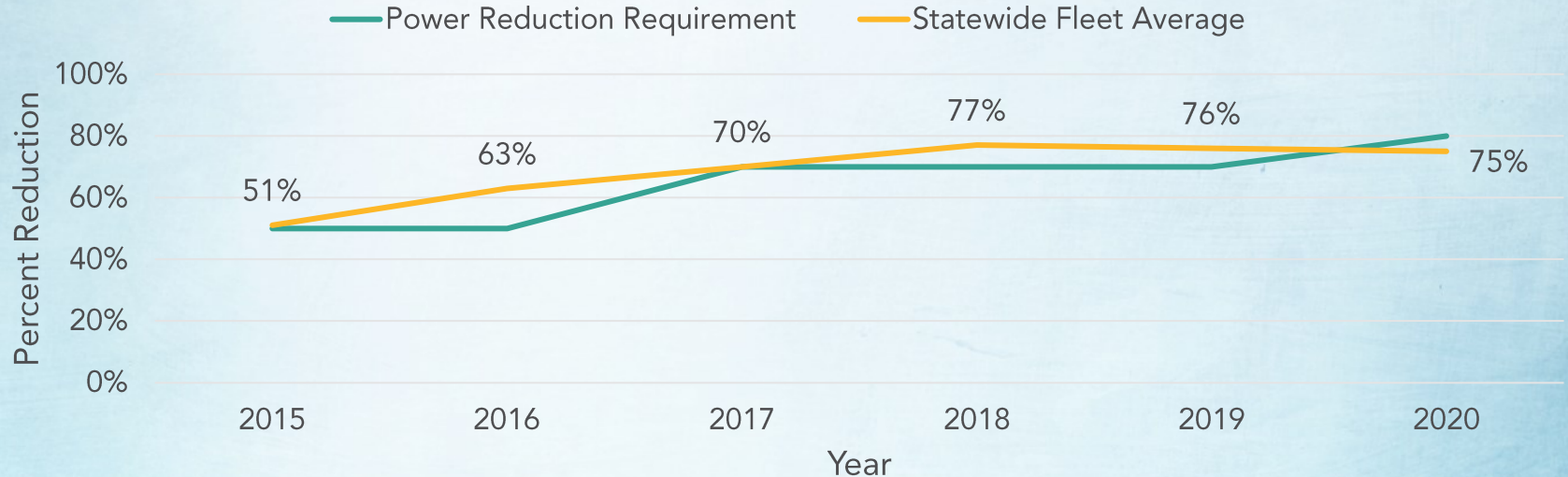


At-Berth / Shore Power

- Requires fleets to plug into electricity or use an alternative control technology at-berth
- Significant events in 2020
 - COVID-19
 - Extreme Heat Event Proclamations
 - Barge EO revocation

At-Berth Power Reduction

Actual Percent Reduction in OGV Auxiliary Diesel Engine Use While At Berth in CA 2015-2020, Measured in MWh



OGV Fuels

- First year testing for distillate grade fuel
 - Incorporated into every violation in 2021
- Exploring alternative technologies to identify noncompliance



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Engine and Product Requirements

- Vehicle and Engine Certification
 - CARB sets emissions standards for new vehicles and engines
 - Enforcement for failure to disclose information during or after certification, and defeat devices
- Product Requirements
 - CARB sets emission limits for consumer products, composite wood products, and fuels
 - Enforcement through field inspections, purchasing products, emissions testing, and desk audits

Small Off-Road Engines

- In-person inspections at retail and warehouse locations
 - 1,179 inspections (over the last 5 years) designed to ensure only certified products are offered for sale
 - Five violations identified (99% compliance)
- In-use compliance testing
 - Significantly lower compliance with evaporative emissions standards
 - Settled two-year case with Honda for \$6.9M
- Enforcement of zero emission manufacturing, warranty & durability requirements beginning in 2024

Indoor Air Cleaning Devices

- Increase in sales due to wildfires and COVID-19
 - Approximately 1,500 newly certified devices in 2021
- Investigate complaints and referrals from public
 - More than \$100,000 in penalties from three companies selling uncertified products



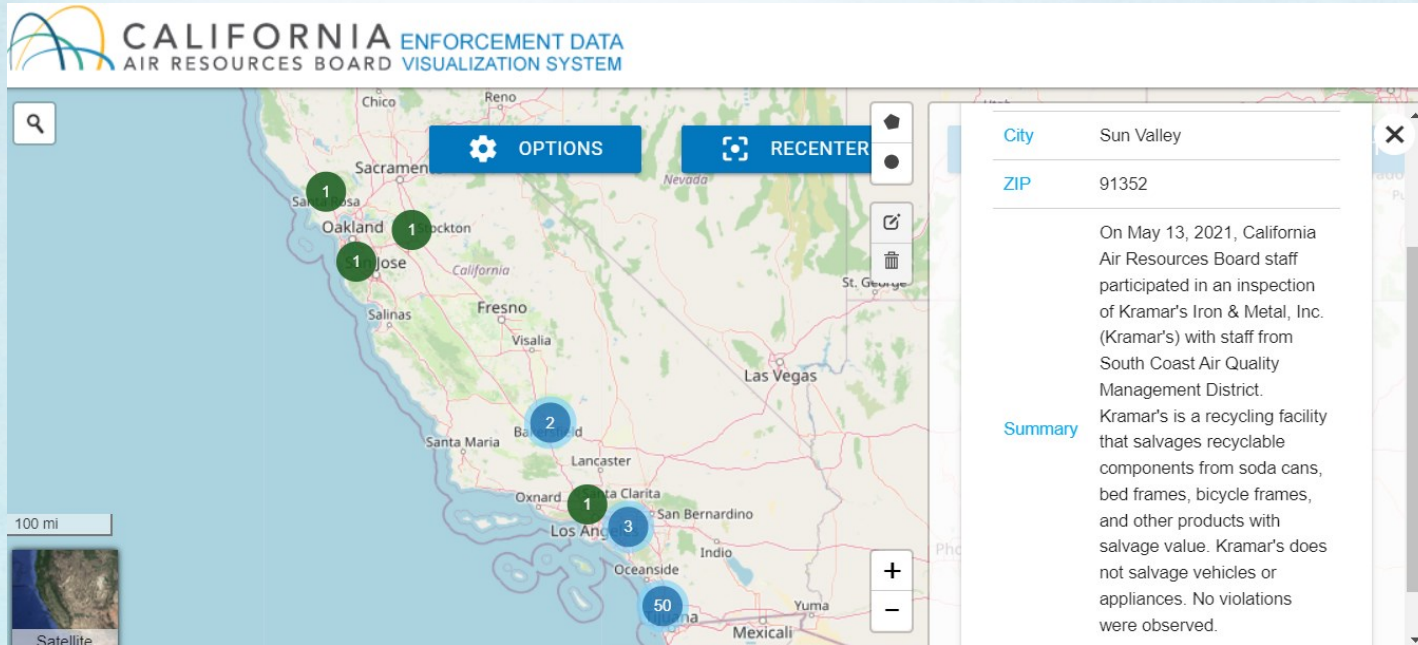
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Stationary Sources

- Traditional training and support
- Community concerns
 - Complaint responses
 - Local permitting and policy review
- Increasing transparency
 - Stationary source inspections added to EDVS

Stationary Sources - EDVS



Training

- Online expansion
 - Three new online trainings
- 54 live sessions / 2,000 students
- Air Quality Training Program update



Stationary Source Program Reviews

- SDAPCD Program Review
 - Final report forthcoming
- SCAQMD RECLAIM Transition
 - Supporting district transition to command-and-control regulatory structure
- SJVAPCD ERC Program Review
 - Working with district to implement ERC improvements outlined in June 2020 report

Landfill Methane Regulation

- Coordination with air districts
 - Enforcement
 - Understanding compliance rates
- 15 landfill inspections
 - Nine sites had methane exceedances



Equipment Registration

- Portable Equipment Registration Program (PERP)
- Cargo Tank Vapor Recovery Program (CTVRP)
- Revenue neutral programs
- Operating more efficiently due to new software
 - Moving toward full electronic application processing

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Moving Forward

- Evaluating approaches to strengthen enforcement and communication in disadvantaged communities
- Focusing additional resources in programs with lower compliance rates
- Providing input to regulation development to help ensure enforceability
- Developing new enforcement tools as technology advances
- Continuing to expand stationary source programs

Access the Report

Available online at
<https://ww2.arb.ca.gov/resources/documents/enforcement-reports>

