

AB 617: SAN BERNARDINO / MUSCOY

CO-HOSTS / CO-ANFITRIONAS:
ANGIE BALDERAS
DANIEL WONG

February 23, 2023

RESIDENT TESTIMONIAL / TESTIMONIO DE RESIDENTE

Resident Testimonial: Mary Valdemar /
Testimonio de residente: Mary Valdemar

Joint Electric Truck Scaling Initiative (JETSI)



Coalition for Clean Air
Gladstein, Neandross &
Associates (GNA)

Agenda



Introduction



Project
Background



Deployment



Project Focus



Survey



Next Steps

Introduction



Lawren Markle
Gladstein, Neandross & Associates (GNA)




Kareem Gongora,
Coalition for Clean Air

Project Background

2 Fleet Operators


NFI
SCHNEIDER

100
Battery-Electric Trucks




Volvo Trucks North America and Daimler Truck North America will produce a combined 100 Class 8 battery-electric trucks for regional haul and drayage.

50 Truck Chargers



1 MW
Solar Energy Generation



To charge the vehicles, heavy-duty chargers will be installed at two sites. The chargers at NFI's Ontario facility will utilize renewable electricity generated through solar power, supported by 5 MWh of battery energy storage.

- JETSI is the largest deployment of battery-electric trucks in North America to date, significantly increasing the number of zero-emission heavy-duty trucks available for goods movement while achieving necessary emission reductions.
- CARB and CEC together awarded \$27M to JETSI, with additional funding from South Coast AQMD and MSRC. JETSI is part of California Climate Investments, putting billions of cap-and-trade dollars to work reducing GHG emissions, strengthening the economy and improving public health and the environment – particularly in disadvantaged communities.

Deployment



- Project partners Daimler Truck North America (DTNA) and Volvo Trucks North America (Volvo Trucks) will produce and deliver the Class 8 battery-electric trucks (BETs) for deployment in Schneider and NFI's Southern California fleet operations.
- Operating in disadvantaged communities, the zero-emission trucks will replace the equivalent of over 690,000 diesel-gallons annually while accelerating commercialization of battery-electric trucks.

Project Focus



5.5 Million DGEs

of diesel fuel will be displaced over the eight-year project



8,200 Metric Tons

of greenhouse gas emissions (GHGs) will be reduced each year



5 Weighted Tons

of criteria pollutants will be avoided each year by displacing diesel



239 Long-Term Jobs

sustained, including drivers and service technicians

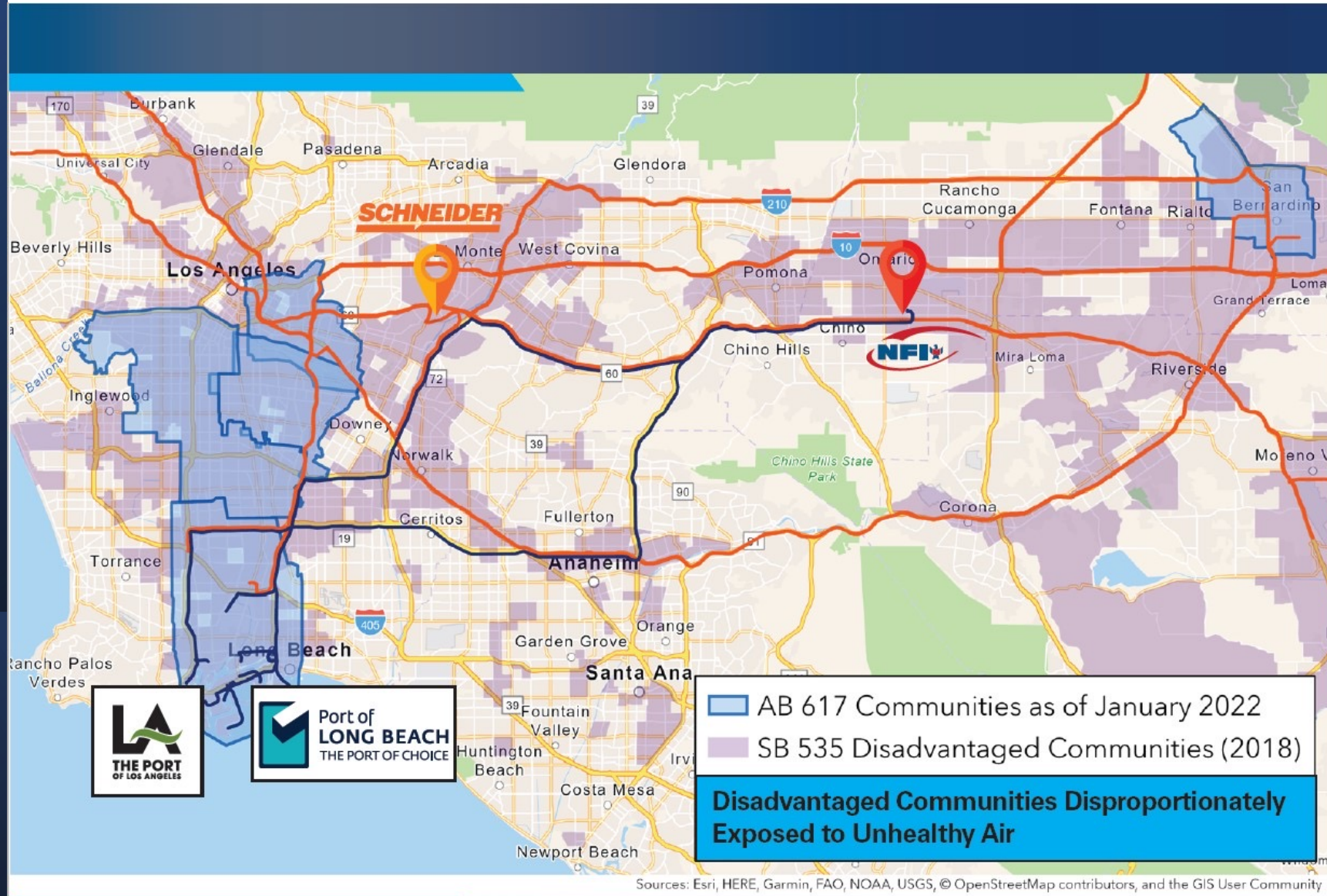


\$16.8+ Million

in regional economic activity as result of site construction

- The project is poised to eliminate five tons of pollutants such as nitrogen oxides (NOx) and particulate matter (PM) annually along Southern California's I-710 and other freight corridors, as well as eliminate 8,247 metric tons of greenhouse gas emissions.
- Trucks will move freight from the San Pedro Bay Port complex to inland distribution centers and warehouses, serving drayage and regional freight hauls.

Project Focus Map



Survey

Joint Electric Truck Scaling Initiative (JETSI) Survey

This survey has been prepared by Coalition for Clean Air to gauge and better understand

1. My organization belongs to the following stakeholder group:

- Community Based Organization
- Environmental Justice
- Public Health
- Government
- Other

2. My organization is impacted by trucking.

- Strongly Agree
- Somewhat Agree

Next Steps



**COMMUNITY EMISSIONS REDUCTION PLAN (CERP) IMPLEMENTATION /
IMPLEMENTACIÓN DEL PLAN COMUNITARIO DE REDUCCIÓN DE EMISIONES (CERP)**

**CARB - Automated License Plate Reader (ALPR) Update /
CARB - Actualización del Lectores de Placas Automatizados
(ALPR)**

**Carl Moyer and Commercial Lawn & Garden Update /
Actualización del Program Carl Moyer y Equipos Comerciales
para Césped y Jardín**

Automated License Plate Recognition (ALPR) Pilot Study Update

February 2023

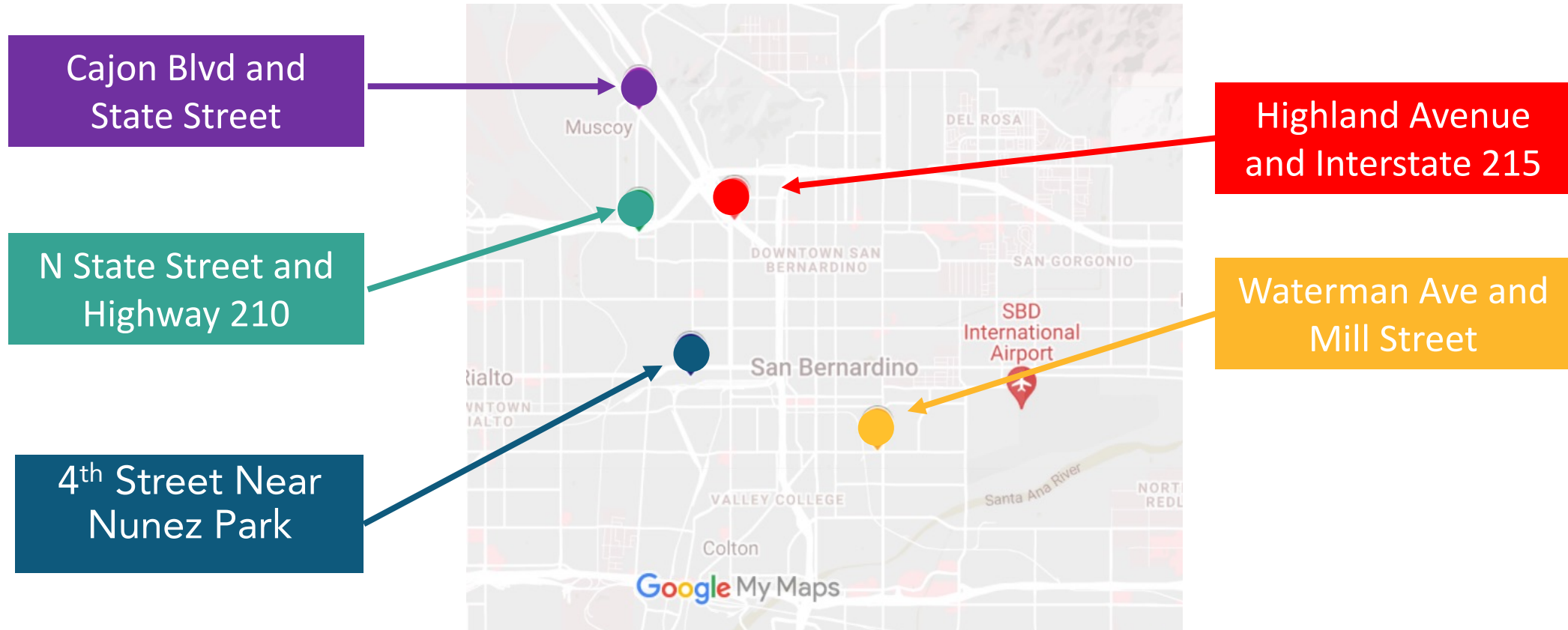
- **Air quality concern: Heavy-Duty Trucks**
 - Heavy-duty trucks identified as an air quality priority by the Community Steering Committee (CSC)
- **Objectives:**
 - Collect heavy-duty vehicle information and assess ability to achieve desired CERP actions prior to larger scale monitoring
 - Identify older trucks to target incentive funds and truck route planning

What is ALPR?

- **A**utomated **L**icense **P**late **R**ecognition
- Collects images of passing vehicles
- Software transcribes license plate images to a text file



ALPR Pilot Project Locations

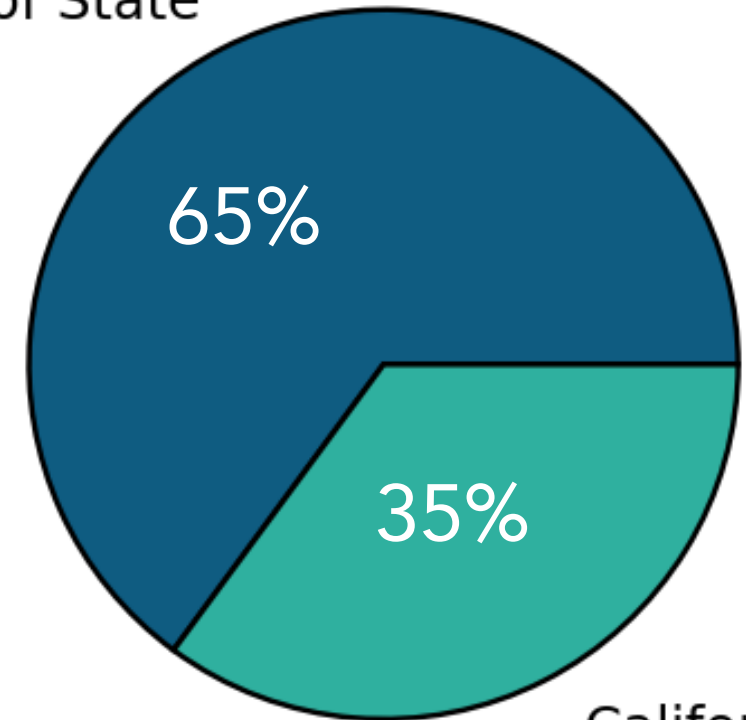


Where are the trucks from?

- 665 heavy-duty vehicles identified
- Majority of trucks registered outside of California
 - CARB used ALPR and internal databases to compile CA-registered vehicle information

Truck Registration Location

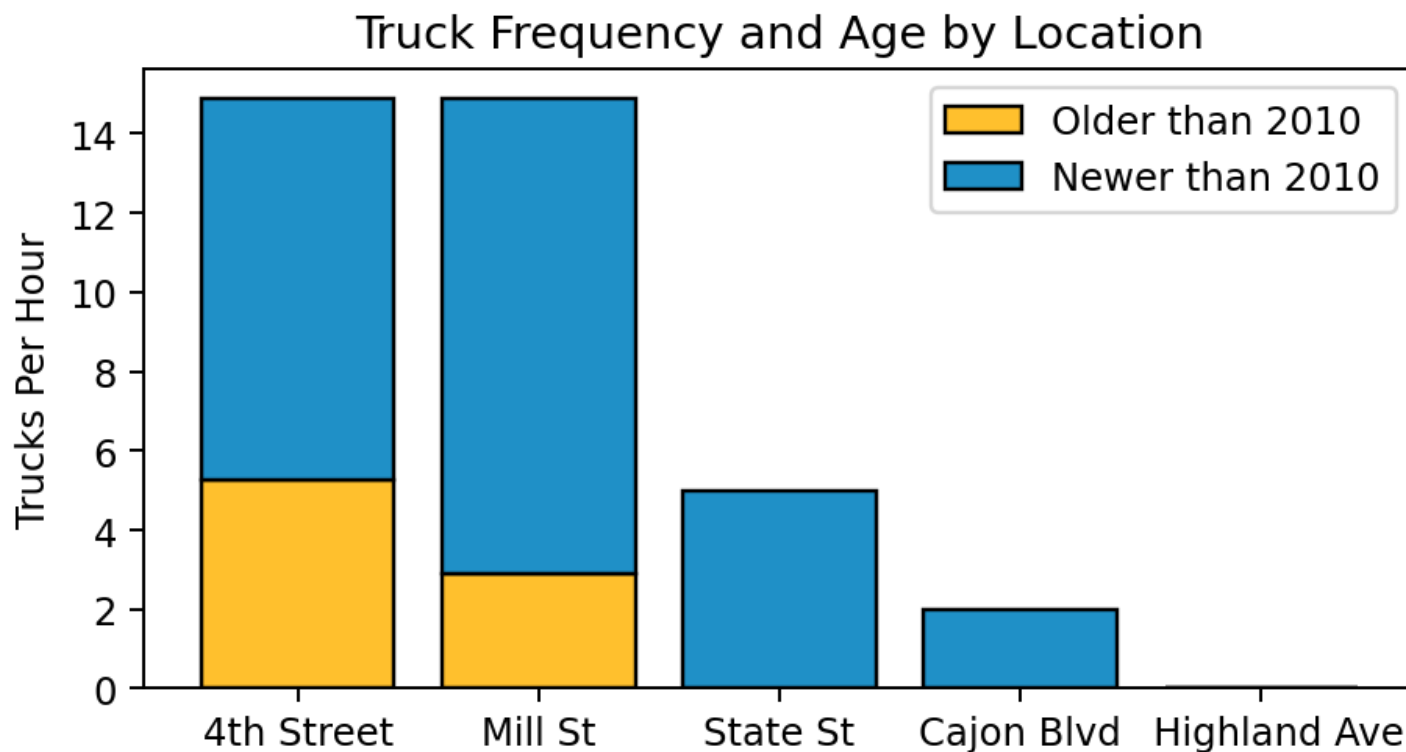
Out of State



California

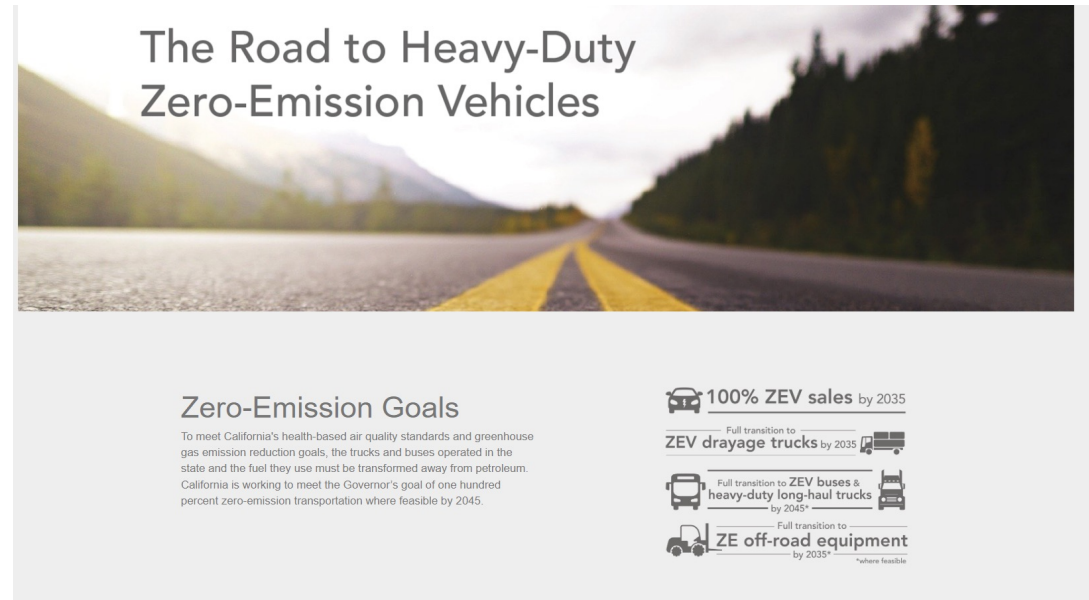
What was the frequency of trucks?

- Truck frequency varied significantly by location
- 4th Street near Nunez Park saw the highest truck frequency
- No trucks were observed on Highland Avenue en-route to Highway 210



What Incentives are available?

- Notification to truck owners of available incentive funding
- Postcard will be mailed to truck owner in March 2023
- More Information on Incentives:
 - HVIP:
<https://californiahvip.org/>
 - ZEV Truckstop:
<https://ww2.arb.ca.gov/sites/default/files/truckstop/zev/zevinfo.html>



The Road to Heavy-Duty Zero-Emission Vehicles

Zero-Emission Goals

To meet California's health-based air quality standards and greenhouse gas emission reduction goals, the trucks and buses operated in the state and the fuel they use must be transformed away from petroleum. California is working to meet the Governor's goal of one hundred percent zero-emission transportation where feasible by 2045.

- 100% ZEV sales by 2035
- Full transition to ZEV drayage trucks by 2035
- Full transition to ZEV buses & heavy-duty long-haul trucks by 2045*
- Full transition to ZEV off-road equipment by 2035* (where feasible)



HYBRID AND ZERO-EMISSION TRUCK AND BUS VOUCHER INCENTIVE PROJECT

Incentives for Clean Trucks and Buses

Point-of-sale discounts to power California communities and drive commercial technology transformation

Vehicle Catalog



Pilot Study Conclusion and Next Steps

- ALPR measurements can be used to target incentive funding
- CARB is evaluating including emissions measurements for incentive outreach
- CARB is currently evaluating use of statewide ALPR measurements for use in targeting incentives





Carl Moyer Program and Commercial Lawn & Garden

SOUTH COAST AQMD

ALYSSA YAN

YUH JIUN TAN



Carl Moyer Program

- ▶ Carl Moyer, FARMER and SOON Programs provide funding for cleaner-than-required heavy-duty engines/equipment
- ▶ 25th year of implementation supporting deployment of advanced, cleaner technologies and air quality goals



24 Years - Historic Summary

23



South Coast AQMD has successfully provided over \$570 Million Dollars in incentives through the Carl Moyer Program



Funded 8700 On- and Off-road Vehicles



Reduced a total of 10,100 tons/year of weighted NO_x, ROG & PM emissions in the South Coast Air Basin

Funding Available

Other funding sources may be used:

- ▶ Unused Moyer funds from previous years, accrued interest
- ▶ Community Air Protection Program (CAPP) incentives, State Reserve and FARMER funds

Source	Tentative Allocations	Amount
CARB	Carl Moyer Project Funds	\$44,037,808
	FARMER Funds	\$1,413,500
South Coast AQMD	Required Local Match (AB 923)	\$7,046,049
	Total	\$52,497,357

Proposed FY 2022-23 Carl Moyer Project Categories

25

Project Category	Examples
On-Road	<ul style="list-style-type: none"> • Trucks (drayage and other) • Transit buses • Solid waste • Public agency/utility vehicles • Emergency vehicles (e.g., fire apparatus)
Off-Road	<ul style="list-style-type: none"> • Construction Equipment • Agricultural Equipment • Cargo Handling Equipment • Marine Engine Repower • Locomotive • Ship-Side Shore Power
Infrastructure	<ul style="list-style-type: none"> • Electric chargers • Alternative fueling stations for zero-emission and near zero-emission vehicles



Funding Overview

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Project Category	Funding
On-Road	<ul style="list-style-type: none">• Up to \$410,000 for Zero-Emission Truck Replacement• Up to \$160,000 for Low NOx Truck Replacement
Off-Road	<ul style="list-style-type: none">• Up to 80% - Replacement• Up to 85% - Engine Repower
Infrastructure	<ul style="list-style-type: none">• Up to 50% for all projects• Up to 100% for Public School Buses (Battery Charging and



Schedule

Event	Date
Application Period	January 10 to May 9, 2023
Awards Considered by our Board	Fall 2023

Apply Online Only at:
<https://gms.aqmd.gov>

Projects will be evaluated based on the 2017 Carl Moyer Program Guidelines (including any subsequent updates or changes) and other applicable funding requirements





Commercial Electric Lawn & Garden Exchange Program

Coming
March 2023

Program Information

- ▶ Replacement of gasoline- or diesel-powered commercial lawn and garden equipment with Electric zero-emission equipment
- ▶ Who is eligible?
 - ▶ Commercial gardeners and Landscapers
 - ▶ Local governments
 - ▶ School district, colleges and non-profits
- ▶ Must have operable gasoline or diesel-powered commercial lawn and garden equipment to scrap



Historical Funding- L&G Equipment Replaced

30



South Coast AQMD has successfully provided over \$4 million in incentives in the Commercial Electric Lawn & Garden Equipment Exchange Program



Funded over 7,300 electric zero-emission lawn and garden equipment



Reduced a total of 197 tons/year of emissions in the South Coast Air Basin

Eligible Equipment Types

- ▶ Backpack and Hand-held Leaf-Blowers
- ▶ Stand-on, Ride-On, Walk-behind Lawn Mowers
- ▶ Chainsaws
- ▶ Trimmers, Edgers, Brush-Cutters



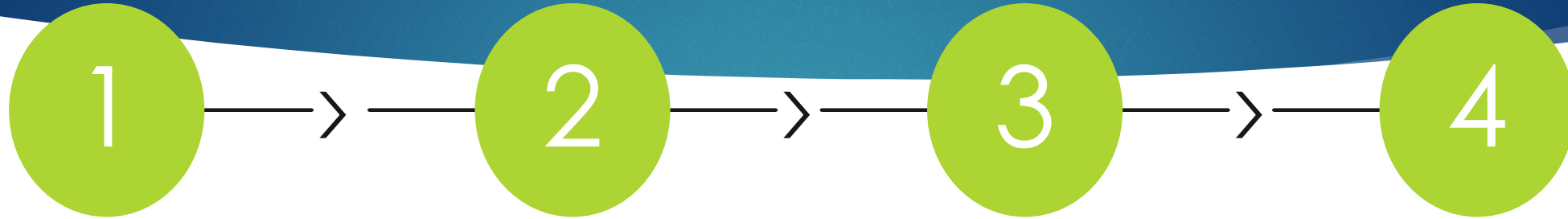
Incentive Amount

- Up to 85% Discount or Funding Cap (whichever is lesser)

Equipment	Funding Cap* (Up to)
Chainsaws/Trimmers/Edgers/Brush-Cutters	\$700
Leaf Blowers/Vacuums	\$1,400
Walk Behind Mowers	\$1,500
Ride-On or Stand-On Mowers	\$15,000

**Purchase of two additional batteries included (example: Funding for a Leaf Blower + 2 additional batteries cannot exceed \$1,400)*

How It Works



Head to a Pre-Authorized Retailer

- Help Determine Eligibility
- Assist in Selecting Eligible Equipment

Retailer Helps Submit Application for Approval

- Additional participant information and documentation will be requested for the application

Receive Notice of Approval

Purchase Equipment at a Discount

- Bring Operable Gas or Diesel Equipment to Retailer
- Discount Applied at Point of Purchase

Opening March 2023

Check Online for List of Eligible Equipment and Pre-Authorized Retailers:

<http://www.aqmd.gov/LawnGarden>

Workshop Topics	Location	Date & Time
Off-Road Agricultural Equipment/Engines Workshop	Coachella Mosquito & Vector Control District, Board Room 43420 Trader Place Indio, CA 92201	Tuesday, February 21, 2023 10 a.m. to 12 p.m.
On-Road Heavy-Duty Vehicles/Infrastructure/Off-Road Heavy-Duty Equipment Workshops	San Bernardino Valley College 701 S. Mount Vernon Avenue San Bernardino, CA 92410 (Room B*100)	Tuesday February 7, 2023 10 a.m. to 12 p.m.
	Riverside Convention Center 3637 5 th Street Riverside, CA 92501	Tuesday March 7, 2023 10 a.m. to 12 p.m.
	Wilmington Senior Center 1371 Eubank Avenue Wilmington, CA 90744	Tuesday March 21, 2023 5:30 p.m. to 7:30 p.m.
Carl Moyer Program General Workshops	Huntington Park 3401 E. Florence Ave Huntington Park, CA 90255	Tuesday March 28, 2023 10 a.m. to 12 p.m.
Carl Moyer Program General Workshops	South Coast AQMD Headquarters, Conference Room CC6 21865 Copley Drive Diamond Bar, CA 91765	Wednesday April 5, 2023 10 a.m. to 12 p.m.

Workshop Events

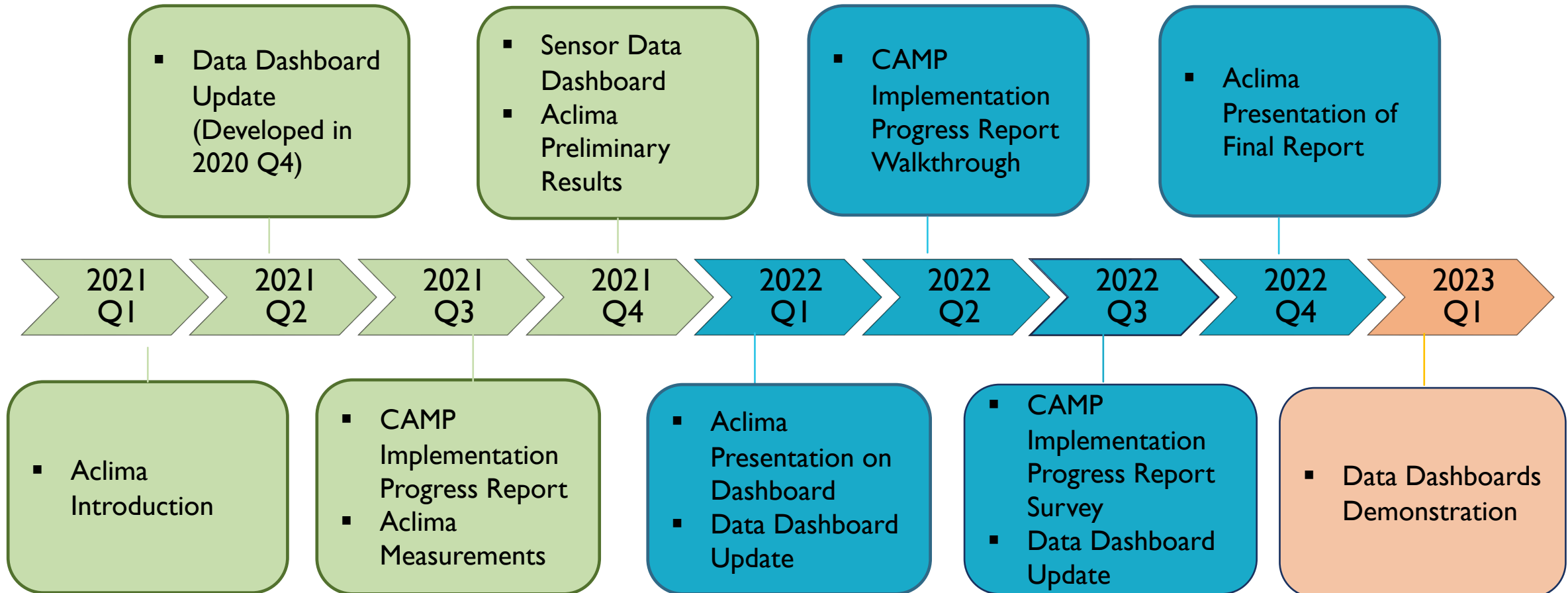


CAMP IMPLEMENTATION UPDATE

Payam Pakbin, Ph.D.
Program Supervisor



2021-2023 CAMP HIGHLIGHTS



Share: [f](#) [t](#)

San Bernardino, Muscoy Community

This page is dedicated to the San Bernardino, Muscoy (SBM) community data platform for real-time continuous measurements, interactive data summaries, air monitoring progress reports and the Community Air Monitoring Plan (CAMP).

Air Monitoring Data Display

- [Real-time Continuous Measurements](#)

Interactive Data Summaries

- [Time-Integrated Air Monitoring Data Dashboard](#)
 - [Sampling dates for time-integrated measurements: July 2019 - March 2020](#)
- [Continuous Air Monitoring Trends Analysis Dashboard](#)
 - [Video tutorial for continuous dashboard](#)
- [AQMD Mobile Monitoring Dashboard](#)
- [Aclima Mobile Monitoring Report](#)

Aeroqual (AQY) Sensor Data Dashboard

- [AQY Data Dashboard](#)
- [AQY Dashboard User Guide](#)

Video Tutorials

- [Video 1: Introducing the AQY Data Dashboard](#)
- [Video 2: Using the Map in the Dashboard](#)
- [Video 3: Using the Analysis Tools in the Dashboard](#)
- [Video 4: Using the Diagnostics Tools and Downloading Data](#)

User Survey - Share Feedback

- [User Survey](#)

Community Air Monitoring Plan (CAMP) Implementation Update

- [Air Monitoring Progress Report \(Story Map\)](#)

YOU MAY ALSO LIKE ...

Contact

Contact information.

Careers

Current employment opportunities at South Coast AQMD

Jurisdiction

Cities in South Coast AQMD's jurisdiction

Finance

South Coast AQMD financial reports, budgets, funding, and billing/payment questions

AB 617 AIR MONITORING PAGE FOR SBM COMMUNITY



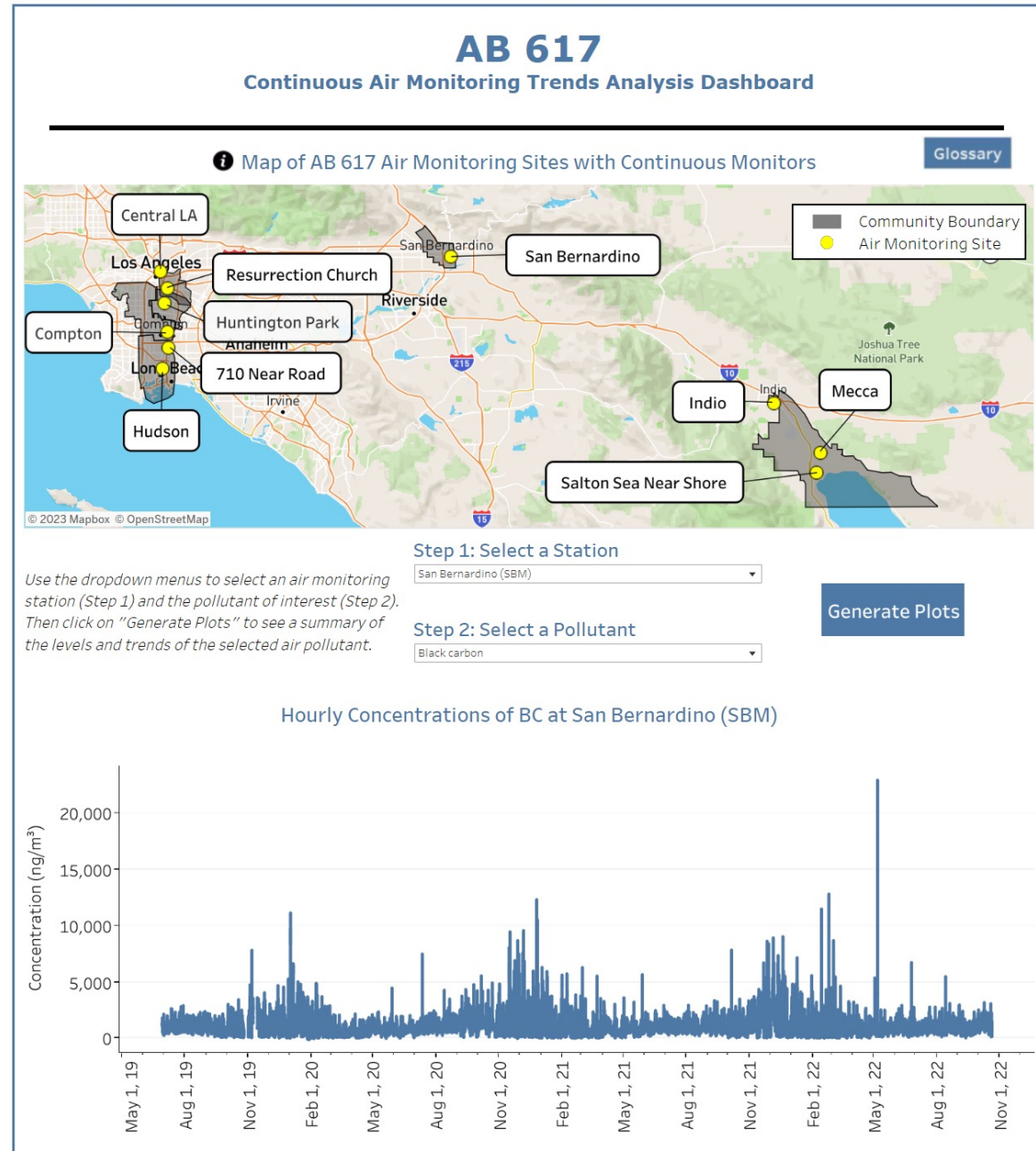
<http://www.aqmd.gov/ab617/monitoring/sbm>

CONTINUOUS TRENDS ANALYSIS DASHBOARD

- Tutorial video has been posted on webpage
- Click the link below to access the dashboard and tutorial:

<http://www.aqmd.gov/ab617/monitoring/sbm>

If you have any questions and/or comments, please contact:
Payam Pakbin ppakbin@aqmd.gov



Q&A

- Comments, Questions, Concerns?

Please contact:
Payam Pakbin
ppakbin@aqmd.gov
909-396-2122



**FUTURE AGENDA ITEMS & CSC MEMBER UPDATES /
TEMAS PARA LA PRÓXIMA REUNIÓN Y ACTUALIZACIONES DE MIEMBROS DEL CSC**

**Future Agenda Items & CSC Member Updates /
Temas para la próxima reunión y
Actualizaciones de miembros del CSC**

PUBLIC COMMENT / COMENTARIO PÚBLICO

AB617comments@aqmd.gov

*9 Raise Hand / Levantar La Mano

*6 Unmute / Activar El Sonido

THANK YOU / GRACIAS

**For more information, questions, or suggestions after this meeting:
Para más información, preguntas o sugerencias después de esta reunión:**

Daniel Wong

Senior Public Affairs Specialist

AB 617 Program

dwong@aqmd.gov

Next Meeting: May 25, 2023

<https://aqmd.gov/AB617/SBM>