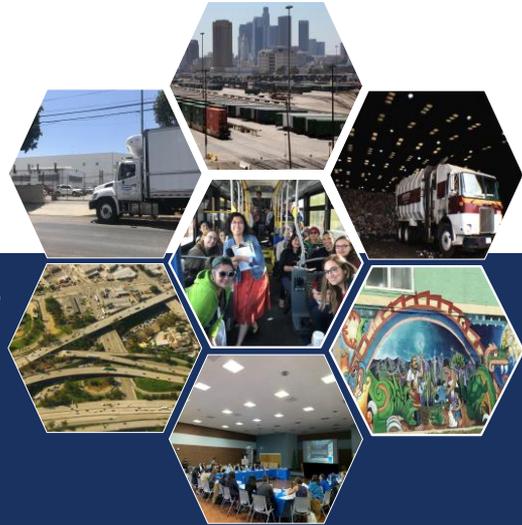


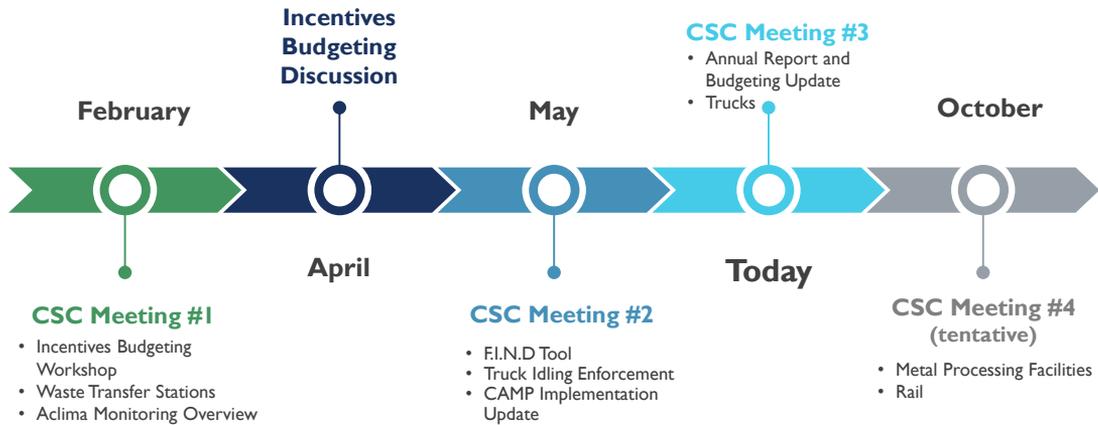
# QUARTERLY 2021 CSC MEETING #3

EAST LOS ANGELES, BOYLE HEIGHTS,  
WEST COMMERCE  
AUGUST 26, 2021



1

## ELABHWC CSC MEETING TIMELINE



2

# AGENDA

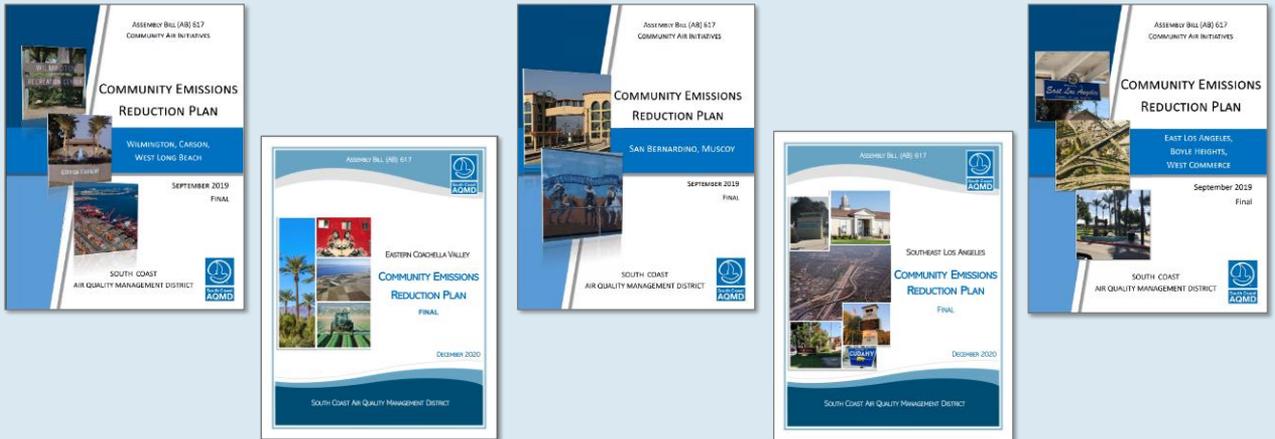


- Annual Report & Budgeting Update
- CERP & CAMP Updates:
  - Neighborhood and Freeway Traffic from Trucks

3



3



# ANNUAL PROGRESS REPORT

DR. NISH KRISHNAMURTHY  
AIR QUALITY SPECIALIST



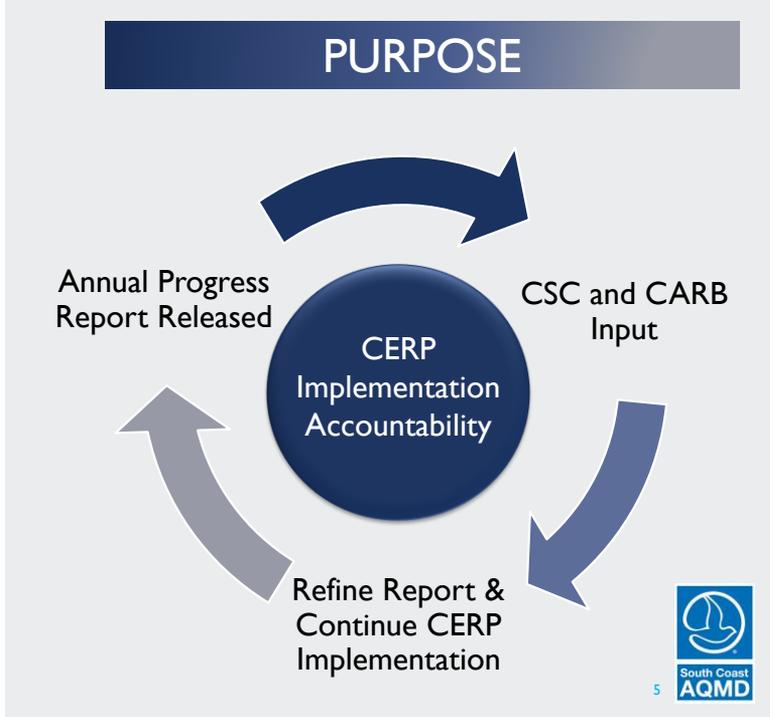
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4

## OVERVIEW

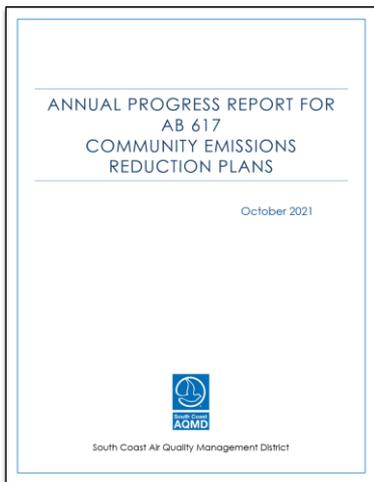
-  AB 617\* requires air districts to annually report the progress of CERP implementation
-  Report will be updated to include implementation totals to-date
-  Annual reports sent to CSC and CARB for review
-  CARB may suggest plan revisions to air districts

\*Health and Safety Code §44391.2(c)(7)



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# OVERVIEW OF REPORT ELEMENTS



- Community Profile Updates
- Overview of CERP Framework
- Status of CERP Actions, Goals and Strategies
- Metrics for Tracking Progress
- Qualitative Assessment
- Summary of Key Plan Adjustments



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## ELABHWC IMPLEMENTATION HIGHLIGHTS (2020 – 2021)

- Adoption of Rule 2305 - Warehouse Indirect Source Rule (ISR) by South Coast AQMD Board
- Adoption of Amended Rules 1426, 1469, and 1469.1 to reduce toxic metal fugitive dust and hexavalent chromium emissions from metal finishing and chromium electroplating and spray coating operations
- \$5.57 million in Year 2 Community Air Protection Program (CAPP) incentive funds for CSC-prioritized projects including zero-emission trucks and school/home air filtration systems
- South Coast AQMD key recommendations incorporated into LA County's Draft Green Zones Ordinance
- ~\$27 million in incentives allocated for cleaner technology mobile source projects



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## TOTAL INVESTMENT IN INCENTIVES

- Future incentive based emission reductions dependent on program funding

\*Actual totals will be reflected in the annual report

Approximate Emission Reductions (tons/year) to date based on Pollutant and Total Investment



8

## ANNUAL PROGRESS REPORT TIMELINE



\*2020-2021 Draft Annual Progress Report will be available online at  
<http://www.aqmd.gov/docs/default-source/ab-617-ab-134/2020-2021-draft-progress-report.pdf>



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## QUESTIONS OR COMMENTS?

- Please submit comments by **August 31, 2021**

Please contact:  
 Nish Krishnamurthy  
[nkrishnamurthy@aqmd.gov](mailto:nkrishnamurthy@aqmd.gov)  
 909-551-9342



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## AB 617 BUDGET OVERVIEW

### Incentives



~\$260 Million

- Total amount awarded since 2017
- Community Air Protection Program
  - Mobile Source Projects
  - Community Identified Projects
- Carl Moyer Program
- Prop 1B
- 1<sup>st</sup> and 2<sup>nd</sup> quarter discussions

### Implementation



~\$50 Million

- Total amount awarded since 2017
- CSC Stipends
- Air monitoring equipment, contractors (e.g., ACLIMA), and data visualization
- Interpretation and facilitation services
- Staff salaries
- Today's discussion

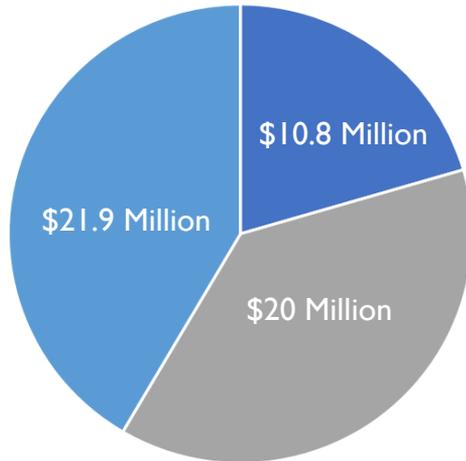
For a review of incentives budget please see:

<http://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/east-la/presentation-feb25-2021.pdf?sfvrsn=26>

<http://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/east-la/inc-strat-presentation-dec8-2020.pdf?sfvrsn=9>

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# AB 617 IMPLEMENTATION BUDGET

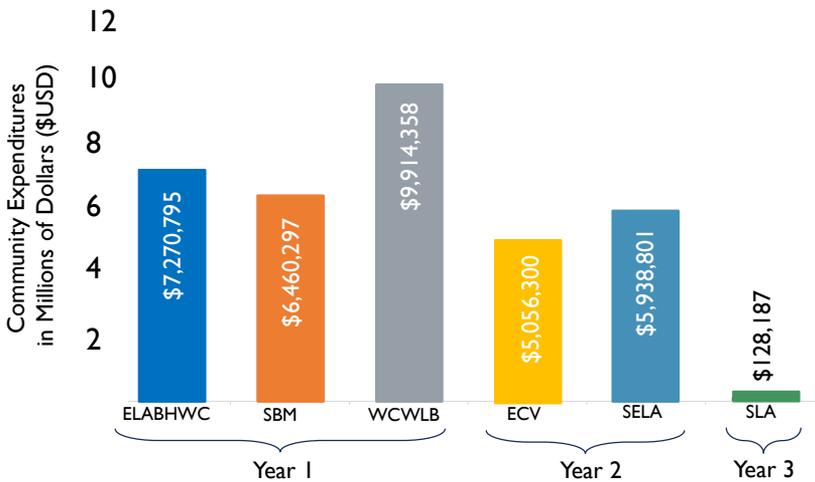


- Grant funds awarded through June 2021 total \$52.7 Million
- Grant funds awarded for implementation across all South Coast AQMD AB 617 communities
- Grant 2020 was received July 2021 for \$21.9 Million



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# AB 617 IMPLEMENTATION EXPENDITURES BY COMMUNITY



- Total AB 617 expenditures through June 2021: \$51,648,938\*
- Cross community expenditures totaled \$16,880,200
- Remaining balance: \$1,031,062†

\*Expenditures are currently unaudited  
 †Remaining balance as of 6/30/21 equal to: \$52,680,000 - \$51,648,938



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# ELABHWC IMPLEMENTATION EXPENDITURES

## Staff Salaries

- Rule development
- Project plan development
- Collaborations with agencies and organizations
- Other

## Services and Supplies

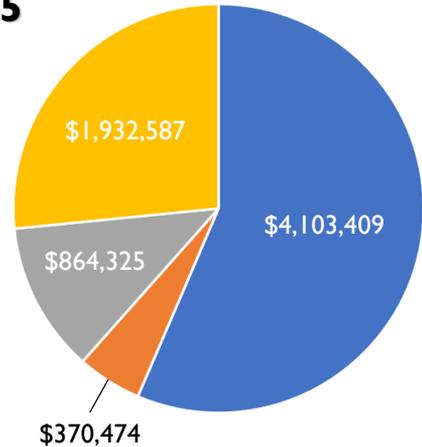
- Facilitator and Interpreter services
- Aclima contract (VOC and BC measurements)
- CSC Stipends
- Cloud data storage
- Rent and leases

## Capital outlays

- Lab supplies
- Data visualization
- Air pollution instrumentation (e.g., BC, ozone, NOx, particle counters)

**\$7,270,795**

Total expenditures through June 2021



## Indirect Costs

- Overhead costs
- Legal, finance, administration, etc.



# AB 617 COMMUNITY EXPENDITURES

## Community Needs

- Community expenditures differ based on community needs, for example:
  - Unique air quality concerns – WCWL B Ports and Refineries require special monitoring contracts
  - Approach to community engagement – ECV had additional community working groups
  - Air quality information – establishment of air monitoring station at Resurrection Church

## Years in AB 617 Program

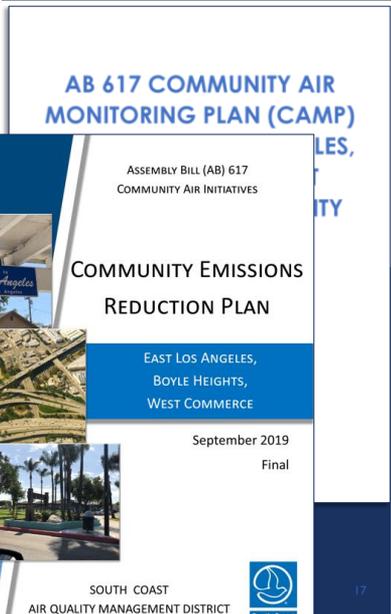
- Year 1, 2, and 3 communities have different implementation budgets due to the amount of time they have been in the program
  - Year 1 communities have been under implementation since 2019
  - Year 2 communities have been under implementation since 2021
  - Year 3 communities are still in development phase



# CERP & CAMP IMPLEMENTATION UPDATE

3<sup>RD</sup> QUARTER 2021

East Los Angeles, Boyle Heights, West Commerce  
August 26, 2021



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## NEIGHBORHOOD AND FREEWAY TRAFFIC FROM TRUCKS



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## TRUCK TOPICS COVERED TODAY

### Truck Incentives Workshop Announcement

- *Purpose:* Seek community feedback for project plans involving zero-emission truck incentive projects
- CERP Chapter 5b, Action 2: Reduce Emissions from Heavy-Duty Trucks

### Truck No Idling Signs

- *Purpose:* Reduce emissions from idling trucks
- CERP Chapter 5b, Action 1: Reduce Truck Idling

### Air Monitoring

- *Purpose:* Identify potential truck idling hotspots for future enforcement actions
- CERP Chapter 5b, Action 1: Reduce Truck Idling

### ALPR + PEAQS Pilot Program

- *Purpose:* Identify and target truck operators for incentive opportunities
- CERP Chapter 5b, Action 3: Utilize New Technology to Identify Older Trucks for Incentive Programs

### CARB Regulations

- *Purpose:* Reduce truck emissions by requiring truck emission standards and ZE and NZE fleet requirements
- CERP Chapter 5b, Action 2: Reduce Emissions from Heavy-Duty Trucks



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## TRUCK INCENTIVES WORKSHOP ANNOUNCEMENT OVERVIEW

- CERP Chapter 5b – Action 2: Reduce Emissions from Heavy-Duty Trucks
  - **CSC Input:** Prioritized zero-emission truck projects to receive Community Air Protection Program incentive funds
  - **Purpose:** Seek CSC feedback to help develop project plans for zero-emission truck incentive projects
  - **Key takeaway:** South Coast AQMD will hold 3 zero-emission truck incentives workshops this fall
  - *Announcement by Walter Shen, Science & Technology Advancement, South Coast AQMD*



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## AB 617 TRUCK INCENTIVES WORKSHOP FOR HEAVY-DUTY TRUCKS

WALTER SHEN  
PLANNING AND RULES MANAGER



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## BACKGROUND AND RECAP

**Why a project plan for truck incentives?**

Existing incentive programs are not working for certain fleets and small businesses in AB 617 communities

Incentive program changes are needed to attract more participants

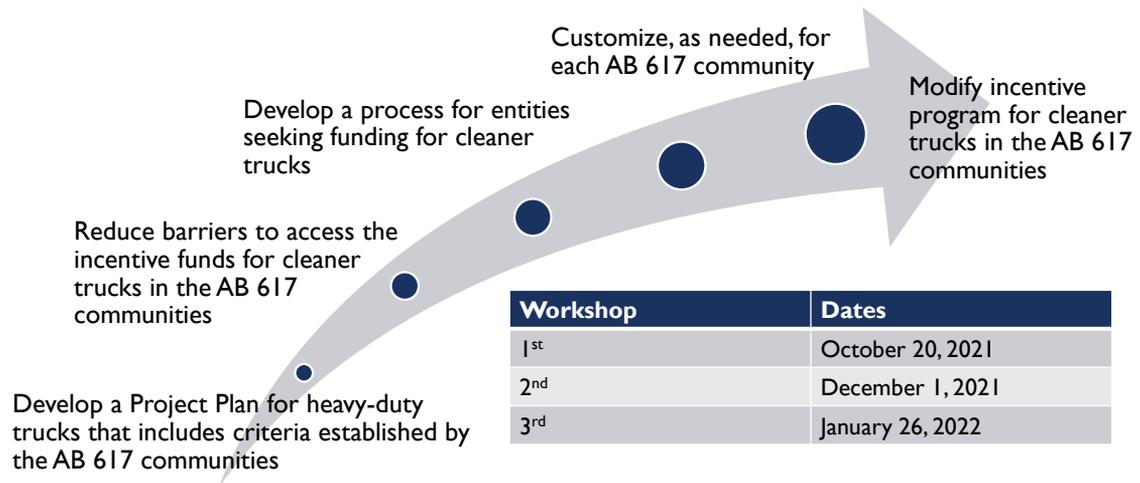
Customize incentives to meet the needs of the community (e.g., prioritize small businesses)

Prioritize funding for trucks in the AB 617 communities

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## TRUCK INCENTIVES WORKSHOP (OBJECTIVES AND DATES)



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## WHAT'S NEXT

- Upcoming workshop information will be provided
  - Agenda
  - ZOOM link
- Evangelina Barrera ([ebarrera@aqmd.gov](mailto:ebarrera@aqmd.gov))

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## TRUCK NO IDLING SIGNS OVERVIEW

- CERP Chapter 5b – Action I: Reduce Truck Idling
  - **CSC Input:** Concern with truck idling in the community, particularly near sensitive receptors
  - **Purpose:** Update CSC on the status of the posting of truck no idling signs
  - **Key takeaway:** Truck no idling signs are to be posted at locations of concern in Boyle Heights by LADOT
  - *Presented by Dr. Crystal Ruel-Chen, CARB*



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## CERP Implementation Enforcement Update

East Los Angeles – Boyle Heights – West Commerce  
 Crystal Reul-Chen ([crystal.reul-chen@arb.ca.gov](mailto:crystal.reul-chen@arb.ca.gov))  
 August 26, 2021

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# CERP No Idling Sign Commitment in City of LA

## Action

Chapter 5B Action 1: County of Los Angeles, **City of Los Angeles**, City of Commerce Work with South Coast AQMD to install signage that prohibits truck idling in certain locations



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## Agency Roles



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# Determination of No Idling Sign Locations in City of LA



## California's Truck Idling Rules are Enforced

**Know the rules and your options**  
Any law enforcement department, including air districts and CARB, can fine a 10,000 pound or greater truck owner and driver up to \$1000 per day for illegal idling (13 CCR 2480 & 2485).

**When can't trucks idle?**  
Within 100 feet of these areas, even with a certified idle engine/sticker:



**When can trucks idle?**  
For up to 5 minutes in most California, and for longer in:

- ☑ With certified Clean Idle while operating in earnest
- ☑ In adverse weather cond
- ☑ Using a power take-off
- ☑ In traffic
- ☑ During mechanical failure
- ☑ For certain inspections



## CA Truck Idling Rules

### When can trucks idle?

For up to 5 minutes in most other parts of California, and for longer in these conditions:

☑ With certified Clean Idle engine and while queuing in unrestricted areas

### Where can't trucks idle?

Within 100 feet of these restricted areas, even with a certified Clean Idle engine/sticker:

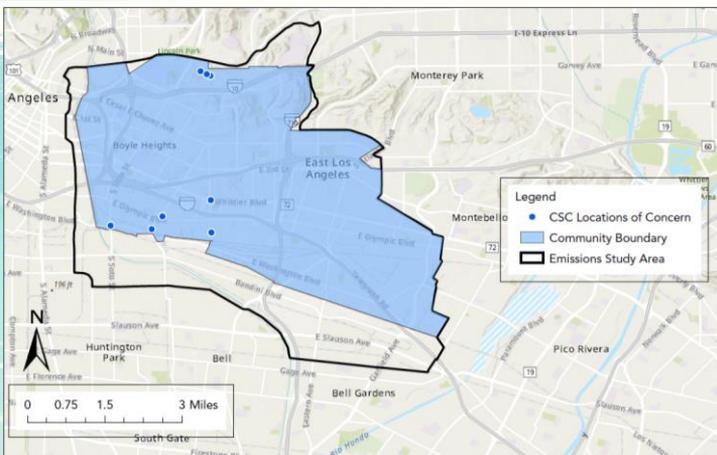


## CSC Prioritization Exercise Fall 2019

Location	City	Specific Facility?	Day (start)	Day (end)	Time (start)	Time (end)	# of workweeks	Top 5?	Sensitive Receptor Mentioned?	Comments	Submitter
2821 N. Indiana St. LA, CA 90063	Los Angeles	Starlite Originals	Monday	Saturday	7:30 AM	3:00 PM	1		Yes	Near public housing and Murchison Elementary	Rudy Perez
2811 Alcazar St. #1108 LA, CA 90033	Los Angeles	Accurate Plating Co.	Monday	Saturday	7:30 AM	3:00 PM	1	x	Yes	Near public housing and Murchison Elementary	Rudy Perez
S. Grande Vista & Union Pacific Ave.	Los Angeles								No		Rafael Yanez
S. Soto St. & E. Pico Blvd	Los Angeles								No		Rafael Yanez
W SR-60 offramp onto Lorena St.	Los Angeles								No		Rafael Yanez
Lorena St & Olympic Blvd.	Los Angeles								No		Teresa Marquez
Indiana St & Whittier Blvd	Los Angeles								No		Teresa Marquez
Indiana St. & Alcazar St.	Los Angeles	Hamona Gardens public							No		Carina Sanchez
Indiana St. & Lancaster Ave.	Los Angeles	Hamona Gardens public							Yes		Carina Sanchez
Soto St. & Vernon Ave.	Vernon		Monday	Friday	9:00 AM	5:00 PM	1	x	No		Carina Martinez



# City of LA No Idling Signs in ELABHWC

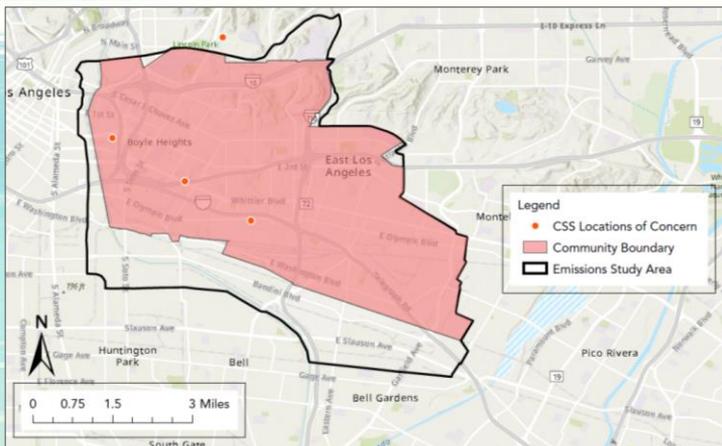


## Requested CSC locations:

- 800-900 S. Indiana St.
- 1400-1500 N. Indiana St.
- 2700 Alcazar St.
- 2800 Alcazar St.
- S. Lorena St. bet. E. 8th St. and Olympic Blvd.
- Union Pacific Ave. from S. Grande Vista
- Union Pacific Av. from Los Palos to Rowan Ave.
- S. Soto St. between E. Pico Blvd and 26th St.



# City of LA No Idling Signs in ELABHWC



## Requested CSS locations:

- Clarence between 4<sup>th</sup> and 6<sup>th</sup>
- CSS: 60 freeway underpass on Whittier between Fresno and Lorena
- CSS: Multnomah Elementary
- CSS: Eastman Ave. Elementary



# Boyle Heights No Idling Sign Locations Submitted to City of LA



## Mobile PEAQS System for Enforcement

- PEAQS (Portable Emission AcQuisition System) measures vehicle exhaust as vehicles pass under
- Heavy duty trucks are directed out of traffic to pass under PEAQS
- CARB Enforcement staff monitor the emission readings
- Highest emitters are selected for full vehicle inspections and are pulled over down the road by CHP so CARB Enforcement staff can conduct a full inspection
- Every vehicle pulled over is inspected for Heavy Duty Vehicle Inspection Program (HDVIP), including tampering checks and smoke opacity measurements; Statewide Truck & Bus; SmartWay, and transport refrigeration unit (TRU) compliance when applicable



## ELABHWC PEAQS Inspections

- CARB conducts PEAQS deployments for enforcement purposes throughout California
- PEAQS was deployed for four days in ELABHWC in 2021
- In total, CARB Enforcement staff screened 1,213 heavy duty trucks using PEAQS during this time
  - Staff flagged 55 trucks for full inspections
  - Staff cited 25 trucks and issued 28 citations.
    - 10 Smoke opacity
    - 9 Engine control label (ECL)
    - 2 Truck and bus (T&B)
    - 4 Transport refrigeration unit (TRU)
    - 3 Tampering



## TRUCK AIR MONITORING OVERVIEW

- CERP Chapter 5b – Action I: Reduce Truck Idling
  - **CSC Input:** Concern with truck idling in the community and associated emissions
  - **Purpose:** Update CSC on updated air monitoring results along truck corridors and Aclima's air monitoring campaign in ELABHWC
  - **Key takeaway:** Pollutants associated with truck traffic (NO<sub>2</sub>, UFP, BC) are elevated along major trucking corridors such as freeways
  - *Presented by:*
    - *Dr. Payam Pakbin, Monitoring, South Coast AQMD*
    - *David Herzl, Co-Founder & CEO, Aclima*



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# CAMP IMPLEMENTATION UPDATE



## AUGUST 2021

PAYAM PAKBIN, Ph.D.  
PROGRAM SUPERVISOR

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## AIR MONITORING PROGRESS UPDATE

Air monitoring updates for the period of June 2019 to August 2021 is now available online:

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



Air monitoring activities are ongoing



An interactive progress update is now available



It provides an interpretation of the air monitoring results so far



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## CAMP IMPLEMENTATION ACTIVITIES

### Fixed Air Monitoring

- Measurements at **Resurrection Church** and **Central LA** monitoring stations

### Community Wide Mobile Monitoring

- Mobile measurements in ELABHWC community to identify pollution hotspots

### Targeted Mobile Monitoring

- Specialized mobile monitoring for measurements of air toxics and odorous compounds

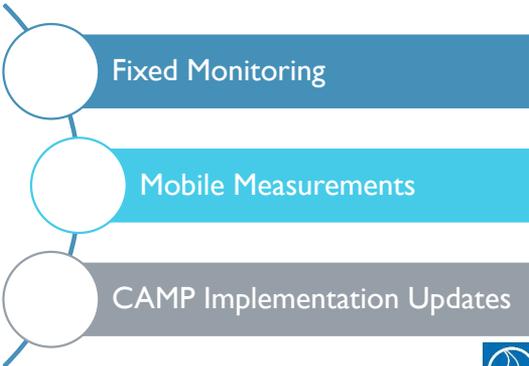
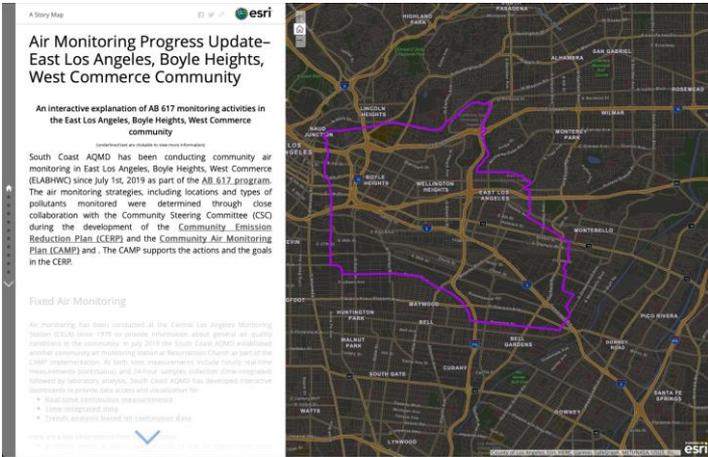


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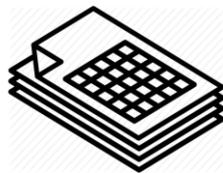
# INTERACTIVE PROGRESS UPDATE

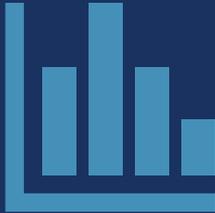
New Interactive Progress Update is Now Available!



# WHAT TO EXPECT?

- **Concentration maps** help identify air pollution hotspots
- **Interactive dashboards** allow data visualization and comparison, as well as access to air monitoring data
- **Progress reports** provide an update on CAMP implementation





# WHERE TO FIND THE PROGRESS REPORTS AND DATA VISUALIZATION TOOLS?

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



## AB 617 AIR MONITORING PAGE FOR ELABHWC COMMUNITY

Air monitoring updates for the period of June 2019 to August 2021 is now available online:

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

Access to real-time air monitoring data

Interactive data summaries to visualize, compare and access air measurement data

Interactive air monitoring progress update

Comprehensive progress reports on air monitoring activities related to each air quality priority

Community Air Monitoring Plan (CAMP) and related documents

The screenshot shows the AQMD website interface for the East Los Angeles, Boyle Heights, West Commerce Community. The navigation bar includes links for Language, Plans, About, Contact, Grants & News, Other Services, and Reporting. The main content area is titled 'East Los Angeles, Boyle Heights, West Commerce Community' and features several key sections:

- Air Monitoring Data Display:** Includes links for 'Real-time Continuous Measurements'.
- Interactive Data Summaries:** Includes links for 'Time Integrated Air Monitoring Data Dashboard New!', 'Continuous Air Monitoring Trends Analysis Dashboard New!', and 'Mobile Monitoring Dashboard New!'.
- Community Air Monitoring Plan (CAMP) Implementation Updates:** Includes a link for 'Air Monitoring Progress Update (Story Map) to be published on August 26th, 2021'.
- Progress Reports:** Lists reports for Neighborhood/Freeway Truck Traffic, Railroads, Remediating Facilities, General Industrial Facilities, Metal Processing Facilities, and Auto Body Shops, all dated August 2020.
- Community Air Monitoring Plan (CAMP):** Includes links for Main Document (PDF), Appendices (PDF), and Quality Assurance Project Plan (PDF).



## WANT TO LEARN MORE?

- Please get in touch

Please contact:  
Payam Pakbin  
[ppakbin@aqmd.gov](mailto:ppakbin@aqmd.gov)  
909-396-2122



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## ALPR + PEAQS PILOT STUDY OVERVIEW

- CERP Chapter 5b – Action 3: Utilize New Technology to Identify Older Trucks for Incentives
  - **CSC Input:** Concern with emissions from older trucks in community
  - **Purpose:** Update CSC on CARB's ALPR + PEAQS pilot study. Data collected will be used to direct incentives information to truck operators
  - **Key takeaway:** CARB to conduct pilot study in ELABHWC during the fall
  - *Presented by Dr. Jeremy Smith, CARB*



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## Portable Emission Acquisition System (PEAQS)/ Automated License Plate Recognition (ALPR) Pilot Study

East LA/Boyle Heights/West Commerce Community Steering Committee Meeting

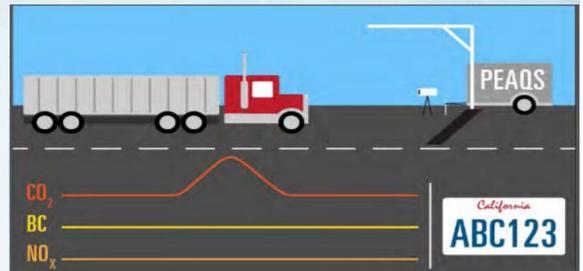
August 26, 2021

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### PEAQS and ALPR

- PEAQS:
  - Portable Emission Acquisition System
  - Roadside emission snapshot
- ALPR:
  - Automated License Plate Recognition
  - Collects images of passing vehicles
  - Automated algorithm transcribes license plate images to a searchable text file



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## PEAQS and ALPR Pilot Project



- **Objective:** Collect heavy-duty vehicle information and assess ability to achieve desired CERP actions prior to larger scale monitoring
  - Identify older trucks to support directing incentive funds
  - Support truck routes planning
- **Details**
  - Pilot will last for 1 week, Monday – Friday
  - Location based on CSC input, operation logistics and previous monitoring
- **Proposed Timeline**



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## Data Privacy and Use

- Monitoring and Laboratory Division led project
- ALPR data will be used for CERP objectives
- Collected data is subject to CARB ALPR Privacy Policy\* and adheres to DMV requirements



Picture Credit: LA Times

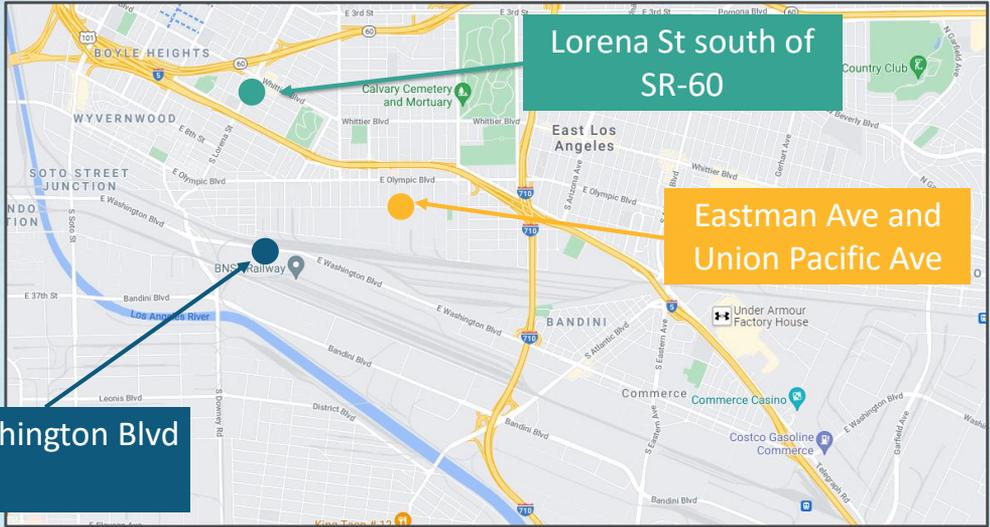
\*Data Privacy Policy: [https://ww2.arb.ca.gov/sites/default/files/2021-07/arb\\_alpr\\_privacy\\_usage\\_policy\\_050317.pdf](https://ww2.arb.ca.gov/sites/default/files/2021-07/arb_alpr_privacy_usage_policy_050317.pdf)



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# Pilot Study: Proposed ALPR ONLY Locations



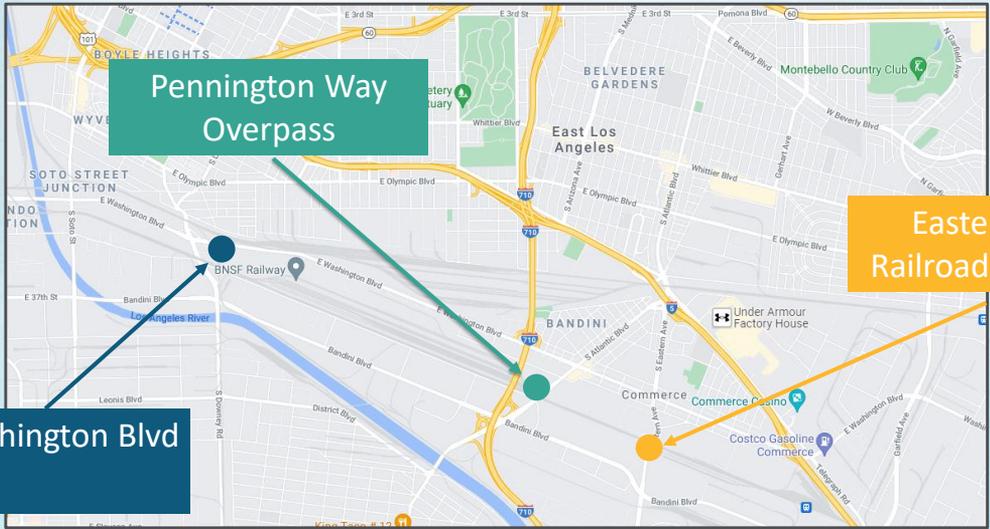
E Washington Blvd

Lorena St south of SR-60

Eastman Ave and Union Pacific Ave



# Pilot Study: Proposed PEAQS & ALPR Locations



E Washington Blvd

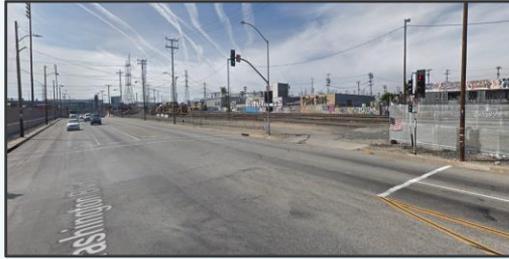
Pennington Way Overpass

Eastern Way Railroad Overpass



## Pilot Study: Proposed Locations

ALPR Only: East Washington Blvd near Esperanza



Emissions and ALPR: East Washington Blvd



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## For More Information

### What is PEAQS and ALPR?

- Informational video available on Youtube:  
[https://www.youtube.com/watch?v=5kdsRR7\\_VVE](https://www.youtube.com/watch?v=5kdsRR7_VVE)

### MLD Monitoring Liaison

Xiaoxi Liu: [xiaoxi.liu@arb.ca.gov](mailto:xiaoxi.liu@arb.ca.gov)

### MLD PEAQS/ALPR Contact

Jeremy Smith: [jeremy.smith@arb.ca.gov](mailto:jeremy.smith@arb.ca.gov)



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## CARB TRUCK REGULATIONS OVERVIEW

- CERP Chapter 5b – Action 2: Reduce Emissions from Heavy-Duty Trucks
  - **CSC Input:** Further reduce emissions through statewide mobile source regulations
  - **Purpose:** Update CSC on recent and upcoming CARB truck regulations
  - **Key takeaway:** Advanced Clean Trucks regulation approved by CARB in June 2020. Proposed Amendments to the TRU Regulation anticipated for CARB approval by 2022. Proposed Advanced Clean Fleets regulation currently in development.
  - *Presented by:*
    - *Olivia Lane, CARB*
    - *Kevin Robison, CARB*



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 The logo for the California Air Resources Board, featuring stylized blue and orange arches above the text 'CALIFORNIA AIR RESOURCES BOARD'.
 

# Transition to Zero-Emission Trucks

East LA, Boyle Heights, West Commerce  
Community Steering Committee  
August 26, 2021

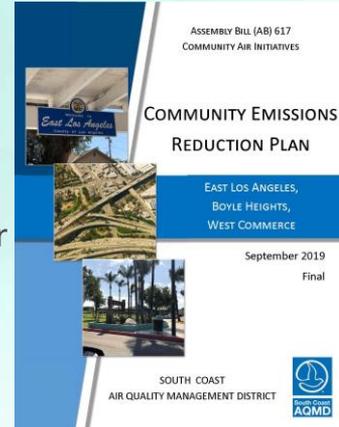
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# Aligning with East LA, Boyle Heights, West Commerce Community goals

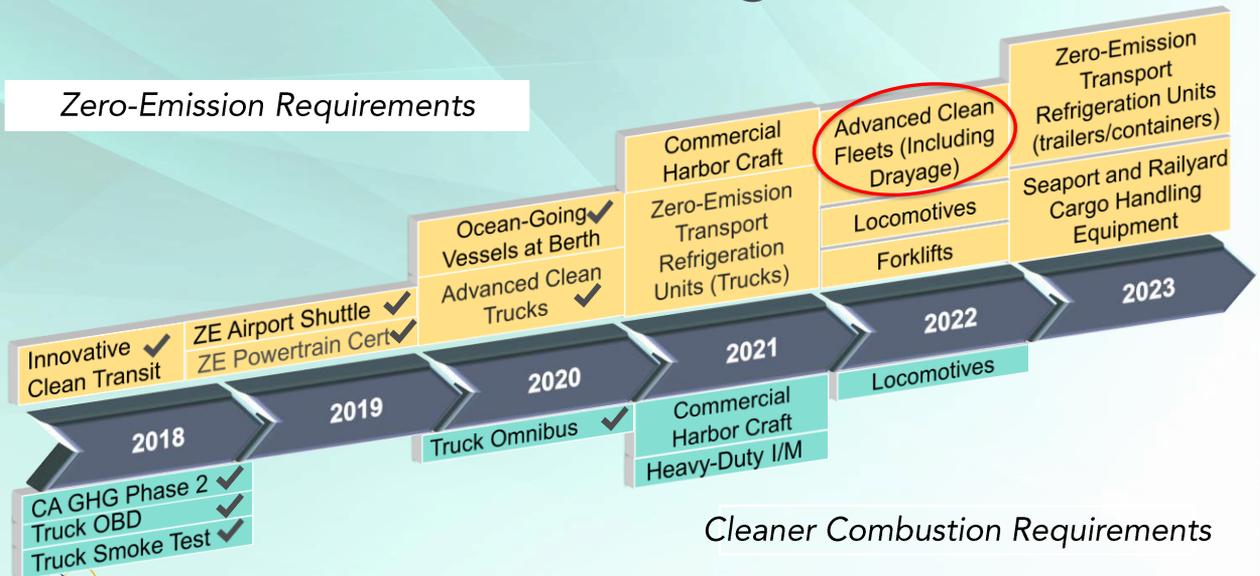
Neighborhood and freeway traffic (trucks and automobiles)

- **Action 2:** Reduce Emissions from Heavy-Duty Trucks
- **Action 4:** Encourage Replacement of Older Polluting Vehicles with Cleaner Vehicles, including Zero-Emission Vehicles



## Suite of CARB Regulations

Zero-Emission Requirements



Cleaner Combustion Requirements





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## Advanced Clean Truck Regulation

- **What is it?**
  - Requires manufacturers to sell zero-emission trucks beginning with 2024 model year – sales % increases over time
- **Who is regulated?**
  - Any manufacturer that certifies on-road vehicles over 8,500 lbs. gross vehicle weight rating for sale in California



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## Proposed Advanced Clean Fleets (ACF) 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 private companies that own or control trucks, buses, and shuttles



 CARB ACF Regulation <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets><sup>59</sup>

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## Proposed Key Milestones in ACF

- **Drayage trucks**
  - 2023 – Newly registered vehicles must be zero-emission
  - 2035 – 100% zero-emission operations in intermodal railyards and seaports
- **High Priority Fleets**
  - 2025 – Phase-in zero-emission vehicles by body type and suitability
  - 2035 – 100% zero-emission for box trucks, vans, buses & yard tractors
- **Public fleets**
  - 2024 – 50% of new vehicle purchases must be zero-emission
  - 2027 – 100% of new vehicle purchases must be zero-emission
- **Manufacturers**
  - 2040 – 100% zero-emission vehicle sales requirement

 CARB

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## How to Get More Information

- Email – [zevfleet@arb.ca.gov](mailto:zevfleet@arb.ca.gov)
- Advanced Clean Fleet Rule website:  
<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>



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## Transport Refrigeration Unit Regulatory Update

AB 617 Community Steering Committee Meeting  
East Los Angeles/Boyle Heights/West Commerce  
August 26, 2021

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## Current TRU ATCM

- Adopted in 2004 (amended in 2010 and 2011)
- Requires TRU engines to meet in-use particulate matter (PM) standards by the end of the 7<sup>th</sup> year after the engine model year
  - All TRUs ultimately required to meet the Ultra-Low-Emission TRU (ULETRU) In-Use Performance Standard (85% diesel PM reduction)
- Requires CARB registration of California-based TRUs



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## Need for Additional TRU Emission Reductions

- Elevated health risk to nearby communities
- SIP attainment (South Coast, San Joaquin Valley)
- Multiple risk reduction, air quality, and climate goals
- Executive Order N-79-20

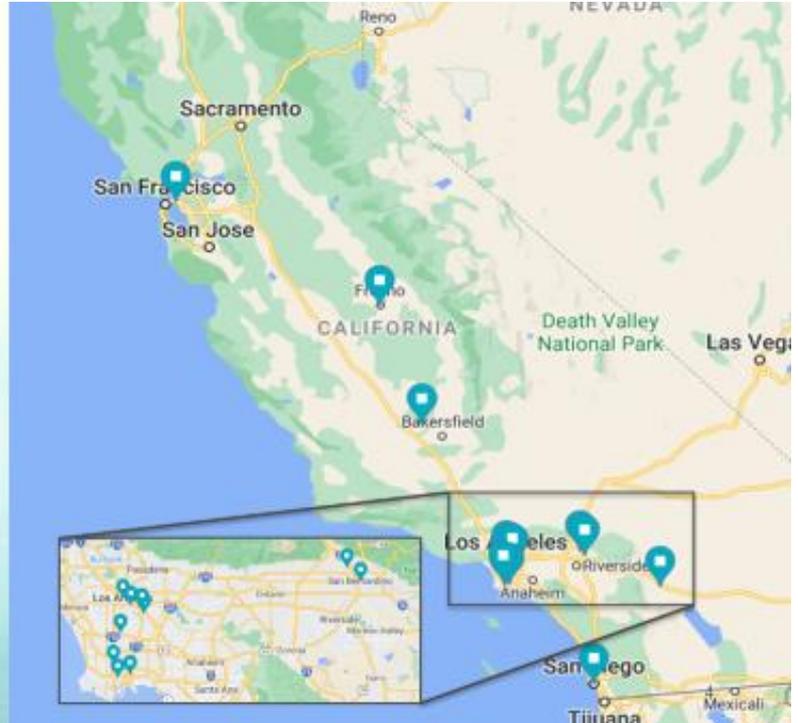


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## Assembly Bill 617 Communities with TRU Concerns

- Boyle Heights
- Carson
- Eastern Coachella Valley
- East Los Angeles
- Muscoy
- San Bernardino
- San Diego Portside Environmental Justice Neighborhoods
- Shafter
- South Central Fresno
- Southeast Los Angeles
- West Commerce
- West Long Beach
- West Oakland
- Wilmington



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## Staff Propose to Transition TRUs to Zero-Emission in Two Rulemakings



Part 1: Truck TRUs (Board consideration in September 2021)

- California-based
- Local and regional operations
- Return-to-base operations



Part 2: Trailer TRUs, container TRUs, railcar TRUs, TRU generator sets (Board consideration in 2024)

- California and out-of-state-based
- Often used in long-haul operations
- Typically do not return-to-base each day
- Staff also plan to address direct-drive refrigeration units in Part 2

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## Next Steps

- Part 1
  - September 13, 2021 – Public comment period ends  
<https://www.arb.ca.gov/lispub/comm/bccommlog.php?listname=tru2021>
  - September 23, 2021 – First Board Hearing
  - Early 2022 – Second Board Hearing
- Part 2 technology assessment



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## Additional Information

- TRU webpage: <https://www.arb.ca.gov/TRU>

- Contacts:

Lea Yamashita, Lead Staff  
[Lea.Yamashita@arb.ca.gov](mailto:Lea.Yamashita@arb.ca.gov)

Cari Anderson, Chief, Freight Transport Branch  
[Cari.Anderson@arb.ca.gov](mailto:Cari.Anderson@arb.ca.gov)



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