# AB 617 COMMUNITY STEERING COMMITTEE

Wilmington, Carson, West Long Beach August 18, 2021



## AB 617 WCWLB

CSC Member Updates



## AB 617 WCWLB

Outreach Updates







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

WALTER SHEN
PLANNING AND RULES MANAGER



### 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

## TRUCK INCENTIVES WORKSHOP (OBJECTIVES AND DATES)

Customize, as needed, for each AB 617 community

Develop a process for entities seeking funding for cleaner trucks

Modify incentive program for cleaner trucks in the AB 617 communities

Reduce barriers to access the incentive funds for cleaner trucks in the AB 617 communities

Develop a Project Plan for heavy-duty trucks that includes criteria established by the AB 617 communities

| Workshop        | Dates            |
|-----------------|------------------|
| st              | October 20, 2021 |
| 2 <sup>nd</sup> | December I, 2021 |
| 3 <sup>rd</sup> | January 26, 2022 |

## WHAT'S NEXT

- Upcoming workshop information will be provided
  - Agenda
  - ZOOM link
- Ryan Stromar (<u>rstromar@aqmd.gov</u>)

# South Coast AQMD AB 617 Community Steering Committee Meeting

August 18, 2021





## Corporate social responsibility pillars



#### **Enabling electric transportation**

Commitment to making the world a more sustainable place by driving electric vehicle adoption through infrastructure and education



#### **Environmental sustainability**

Commitment to being carbon-neutral or better, powering our stations with renewable energy and building infrastructure sustainably



#### **Community support**

Unlocking electrification for all, including investments and education in disadvantaged, low income and rural areas



#### **Equality & diversity**

Striving to achieve diversity and inclusion in everything we do, from investing to hiring and supplier relationships





## **Progress to date**

Largest and most powerful open fast charger network

Reaching all California communities, including rural and disadvantaged communities

Award winning network with highest customer satisfaction

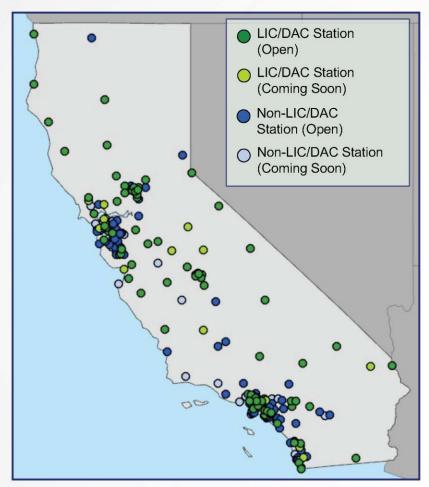
Expanding the market and access through education and outreach





## Electrify America has over 750 chargers at 192 stations open in California

By end of 2021, Electrify America plans for > 230 stations open or under development



**Electrify America's California Network** 

Station spacing: 9 mi. (avg.), 42 mi. (hwy avg.)

Chargers per site: 3-10

Charging speed: 3-20 miles/minute

**Access:** 90% of Californians live within 15 miles of a charger, 96% within 25 miles

**Priority Communities:** 50% of Electrify America Charging Stations are in disadvantaged and low-income communities

Network as of 12.31.2020

## A Green City Investment

Electrify America will be creating a Second Green City beginning in 2022.



A Green City investment can include:

- ZEV car share
- ZEV transit
- ZEV freight transport



The second Green City will be in a community with:

- ~500,000 people
- Predominately consists of Disadvantaged Communities
- CARB guidance encourages a Green City investments that "promote a broad conceptual transformation of transportation systems to ZEVs"



## **Green City 2**

Projects located in Long Beach and Wilmington communities

- \$25 million investment
- Focused on freight and transit electric vehicle charging deployment
- Freight charging depots will serve operators of all sizes, from large to small/independent
- New, innovative technology and business models will be tested and implemented, including smart energy solutions to increase overall energy efficiency and to limit grid impact



## Infrastructure investments Long Beach – Wilmington

Investing \$25MM in transit, medium- and heavy-duty fleet charging to expand transportation, electrification and benefits in the Long Beach – Wilmington area.

## Municipalities and transit agencies are looking to electrify their fleets, but face barriers:

- Limited knowledge of charging technologies and station deployment
- Limited funding
- Limited expertise in energy / utility management

## Medium- and heavy-duty electrification is a top priority for both stakeholders and regulatory bodies:

Requires dedicated sites due to footprint and safety considerations



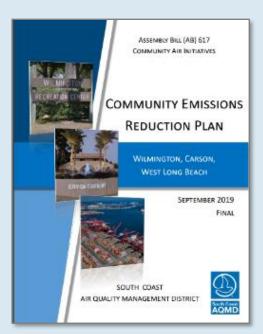


## Cycle 3 Timeline & Next Steps

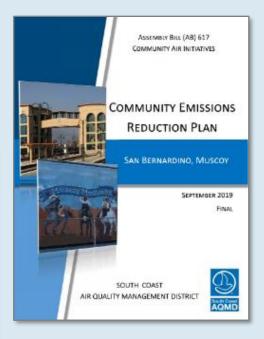
We hope to invest as quickly as possible to help accelerate transportation electrification in California

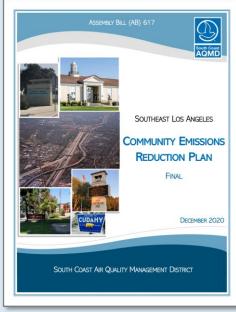
- Real estate acquisition (July 2021)
- Site design & development (starting September 2021)
- Cycle 3 officially begins (Q1 2022)
- First Cycle 3 sites live
   (Q2 2022)

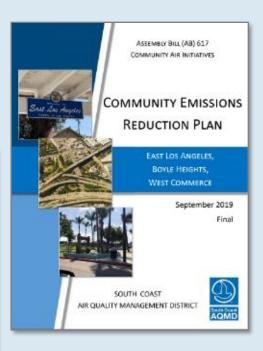












## ANNUAL PROGRESS REPORT

NICOLE SILVA PROGRAM SUPERVISOR



## **OVERVIEW**



AB 617\* requires air districts to annually report the progress of CERP implementation



Report will be updated to include implementation totals to-date

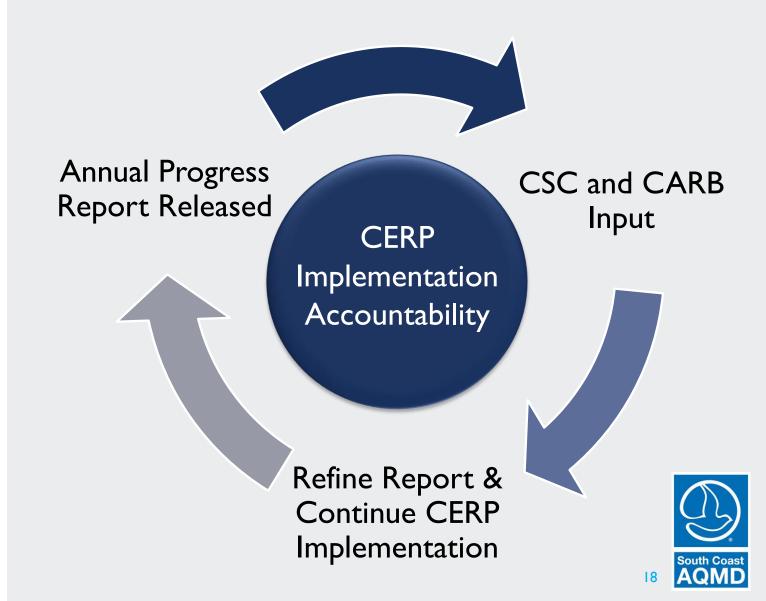


Annual reports sent to CSC and CARB for review



CARB may suggest plan revisions to air districts

## **PURPOSE**



## OVERVIEW OF REPORT ELEMENTS

ANNUAL PROGRESS REPORT FOR

AB 617

COMMUNITY EMISSIONS

REDUCTION PLANS

October 2021



South Coast Air Quality Management District

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









#### South Coast AQMD - AB 617 Community Air Monitoring



#### MAR 617 COMMUNITY AIR MONITORING

as part of the AB 617 program. The locations and types of pollutants

being monitored is unique to each community and was determined through close collaboration with stakeholders. Data collected from air monitoring can provide valuable information about sources of air pollution, types of pollutants, and air quality impacts in AB 617 communities. Monitoring data resulting from the implementation of the Community Air Monitoring Plans (or CAMPs) can be used to support and track air quality actions prioritized by the community to reduce local exposure to harmful air pollutants.

#### Main Goals & Objectives

- To help provide critical information used to guide investigations or associate public information.
- provide public information

## WCWLB IMPLEMENTATION HIGHLIGHTS

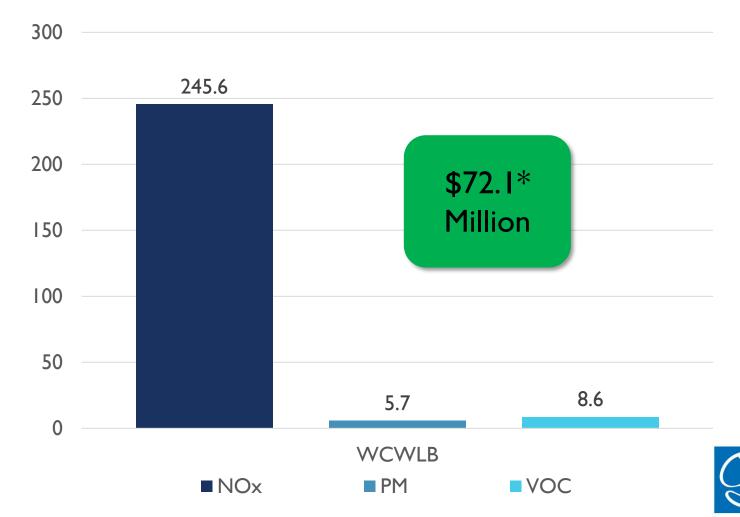
- Rule 2305 Warehouse Indirect Source Rule (ISR) –
   Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program was adopted in May 2021
- Proposed Amended Rule 1178 Further Reductions of VOC Emissions From Storage Tanks At Petroleum Facilities began development
- \$2.4 million in Year 2 Community Air Protection Program (CAPP) Incentive funds recognized for school air filtration systems
- ~\$77.7 million allocated for cleaner technology mobile sources
  - \$5.57 million in Year 3 CAPP Incentive funds for Community-Identified Projects (split evenly between trucks and ships/harbor craft projects)
- Collaboration with LBACA to inform LBUSD about asthma triggers and school air filtration systems
- Community Air Monitoring Display tool available online here

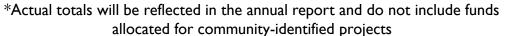


# TOTAL INVESTMENT IN INCENTIVES

Future incentivebased emission reductions dependent on program funding

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





## ANNUAL PROGRESS REPORT TIMELINE





## QUESTIONS OR COMMENTS?

Please submit comments by August 31, 2021

Please contact:
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909-396-3384

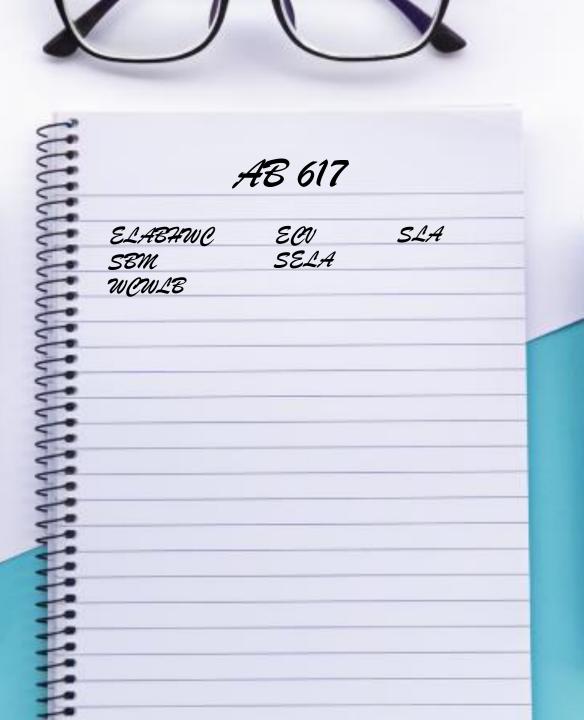






# AB 617 BUDGET OVERVIEW

**CERP IMPLEMENTATION** 



## AB 617 BUDGET OVERVIEW

## ncentives - B









- Total amount awarded since 2017
- Community Air Protection Program
  - Mobile Source Projects
  - Community Identified Projects
- Carl Moyer Program
- Prop IB
- Discussions in 4th quarter 2020 and 1st quarter 2021

## Implementation





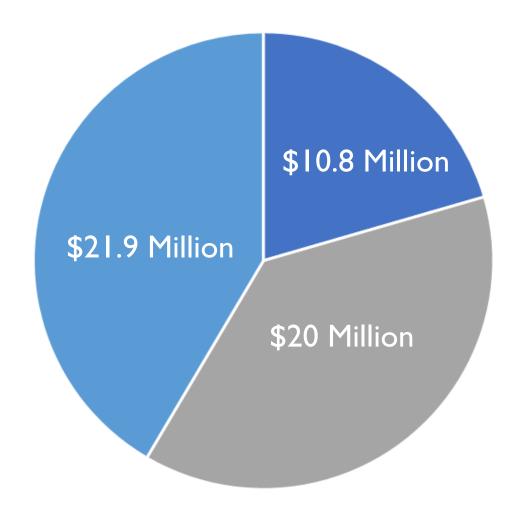
## ~\$50 Million

- 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



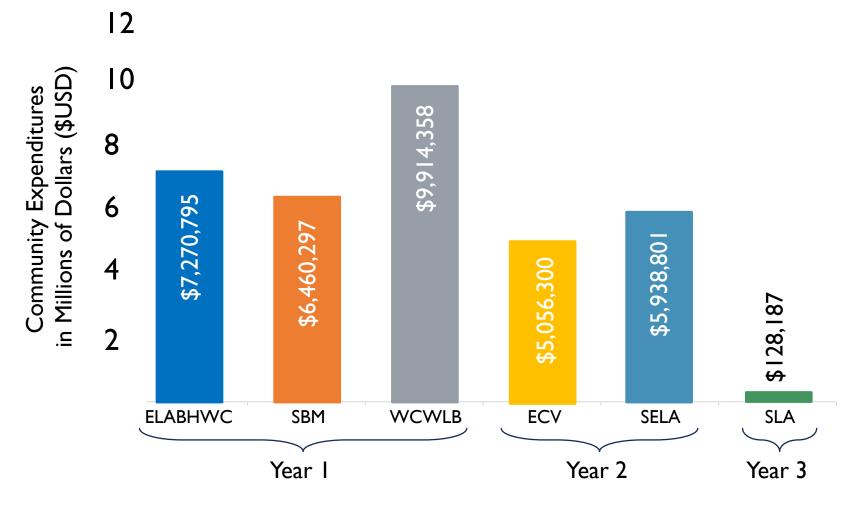
## AB 617 IMPLEMENTATION BUDGET





- 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

## AB 617 IMPLEMENTATION EXPENDITURES BY COMMUNITY



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

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



## WCWLB IMPLEMENTATION EXPENDITURES

#### **Staff Salaries**

### **Services and Supplies**

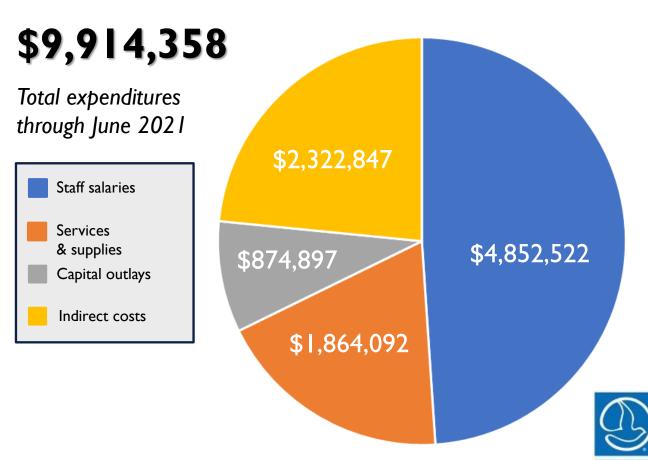
- Facilitator and Interpreter services
- Aerodyne contract (Ship emissions)
- Fluxsense contract (Refineries)
- CSC Stipends
- Rent and leases

#### **Capital outlays**

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

#### **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 WCWLB Ports and Refineries require special monitoring contracts
  - Approach to community engagement ECV had additional community working groups

## Years in AB 617 Program

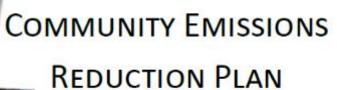
- Year 1, 2, and 3 communities have different implementation budgets due to the amount of time they have been in the program
  - Year I communities have been under implementation since 2020
  - Year 2 communities have been under implementation since 202 l
  - Year 3 communities are still in development phase



## CERP IMPLEMENTATION

Wilmington, Carson, West Long Beach August 18, 2021 ASSEMBLY BILL (AB) 617

COMMUNITY AIR INITIATIVES



WILMINGTON, CARSON,
WEST LONG BEACH

SEPTEMBER 2019

FINAL

SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT

CITY OF CAPSON



## CERP COMMITMENTS

Neighborhood Truck Traffic: Chapter 5d, Action 1

CARB's Regulation development for phase-in: 2024-2030 (including Transport Refrigeration Unit and Advanced Clean Fleets)



Railyards: Chapter 5f, Action I

Between 2020 and 2022, CARB to consider new regulations (e.g., amendment of the regulation for zero-emission transport refrigeration units (TRUs))



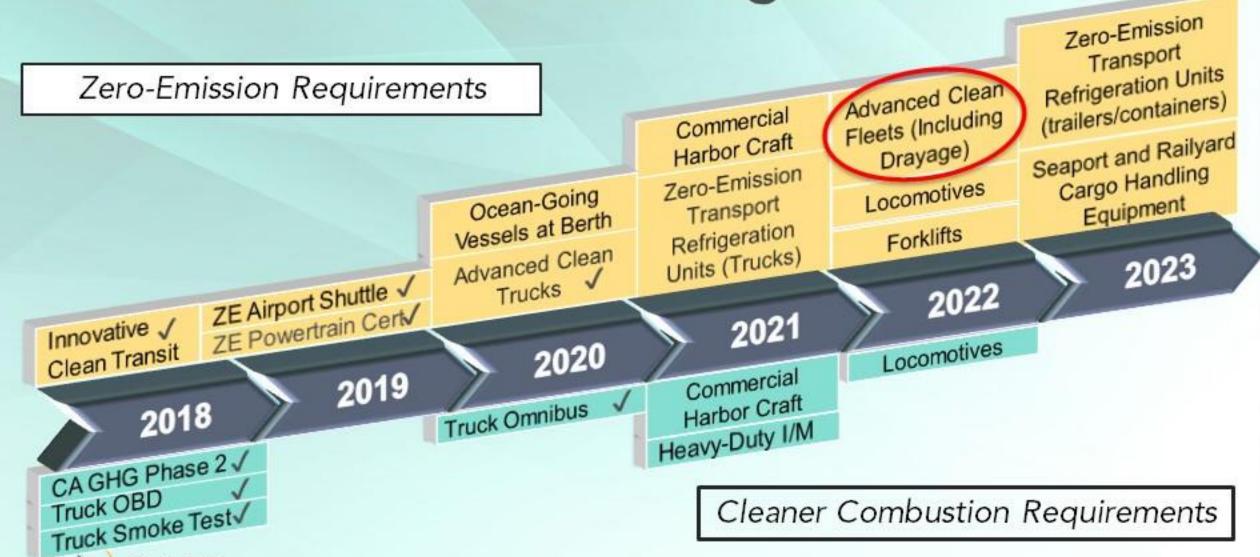




## Advanced Clean Fleet (ACF) Regulation

Wilmington, Carson, West Long Beach Community Steering Committee August 18, 2021

## Suite of CARB Regulations



Cleaner Combustion Requirements

CARB

## Cleaning Up Existing Diesel Trucks

Heavy-Duty Inspection & Maintenance

Requires emission related inspections



New DMV Verification
Requires CARB compliance
check upon registration

Omnibus Regulation

Tightens manufacture warranty and smoke test requirements



## **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 everywhere feasible.
- Who is regulated? Drayage trucks, public agencies, federal governments, and private companies that own or control trucks, buses, and shuttles.
- What else? 100% zero-emission vehicle sales requirement by 2040



## ACF - High Priority Fleets

- "High-Priority Fleets" must phase-in zero-emission vehicles by body type and suitability
- Who are "High-Priority Fleets"?
  - Private or federal entities with over \$50 million in revenue,
  - Who operate a fleet of more than 50 vehicles,
  - Or dispatches more than 50 vehicles per year.





## ACF - High Priority Fleets

| Percentage of fleet<br>that must be ZEVs               | 10%  | 25%  | 50%  | 75%  | 100% |
|--|------|------|------|------|------|
| Box trucks or vans,<br>two-axle buses, yard<br>tractor | 2025 | 2028 | 2031 | 2033 | 2035 |
| Work trucks, day cab<br>tractors, three-axle<br>buses  | 2027 | 2030 | 2033 | 2036 | 2039 |
| Sleeper cab tractors and specialty vehicles            | 2030 | 2033 | 2036 | 2039 | 2042 |



## ACF - Drayage Fleets

- 2023 All drayage trucks registering for the first time in the CARB Drayage Truck Registry must be a zero-emission vehicle
- 2035 100% zero-emission operations in intermodal railyards and seaports





### **ACF - Public Fleets**

- Zero-emission vehicle purchase requirements for city, county, special district, and state agency fleets
- 2024 50% of new vehicle purchases must be zero-emission
- 2027 100% of new vehicle purchases must be zero-emission





## Voluntary Recognition Program

- Recognition for fleets who exceed zero-emission fleet standards
- Recognition for entities that hire fleets who meet or exceed zero-emission fleet standards
- Branding and marketing to accelerate the deployment of medium- and heavy-duty zero-emission vehicles





### How will ACF be enforced?

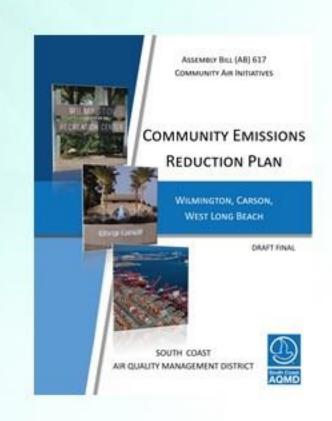
- Reporting requirements
- Fleet audits
- Crosschecking databases
- Roadside inspections
- High priority entity/government agency hold responsible





# How will ACF align with your Air Quality Priorities?

- Ports Action 3:
   Reduce emissions from port equipment and drayage trucks
- Neighborhood Truck Traffic Action 2: Reduce emissions from heavy-duty trucks





### How to Get More Information

Email – <u>zevfleet@arb.ca.gov</u>

Advanced Clean Fleet Rule website:
 https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets





# Transport Refrigeration Unit Regulatory Update

AB 617 Community Steering Committee Meeting Wilmington/Carson/West Long Beach

August 18, 2021

### 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



# 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



### Near Source Health Risk from TRUs

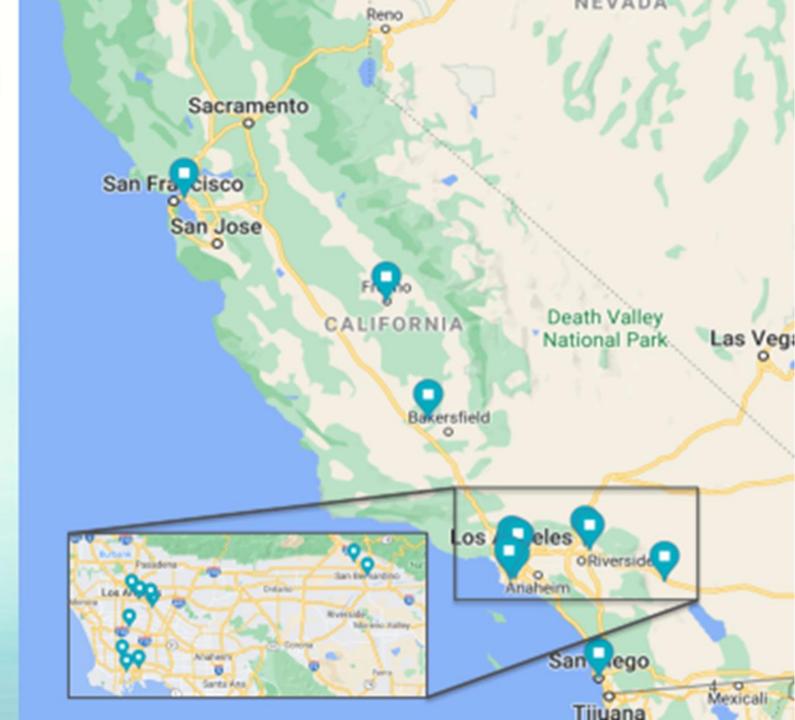




# Assembly Bill 617 Communities with TRU Concerns

- 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





# 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

### **Key Elements of Part 1**

- Zero-emission truck TRUs
- PM emission standard for newly-manufactured TRU engines
- Lower-global warming potential refrigerant



### Key Elements of Part 1 (continued)

- Additional requirements to support enforcement
  - Expanded TRU reporting
  - TRU compliance labels
  - Facility registration
  - Facility reporting or turn-away of non-compliant TRUs
  - Vehicle owner and driver requirements



# Applicable Facility Types and Size Thresholds

Refrigerated Warehouses or Distribution Centers

Building size greater than or equal to 20,000 square feet and has TRU activity

**Grocery Stores** 

Building size greater than or equal to 15,000 square feet and has TRU activity

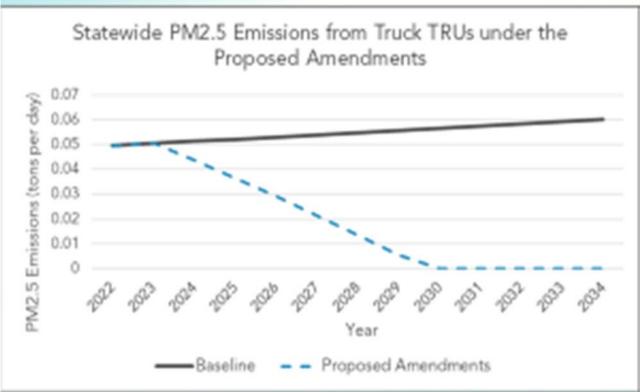
Seaport Facilities and Intermodal Railyards

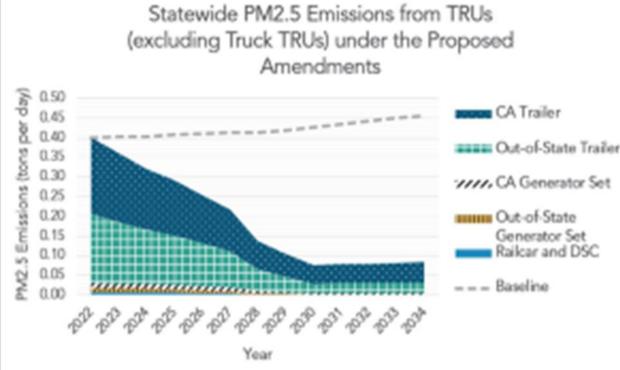
No square foot size threshold – All seaport facilities and intermodal railyards with TRU activity



### Estimated Emission Reductions from 2022 to 2034

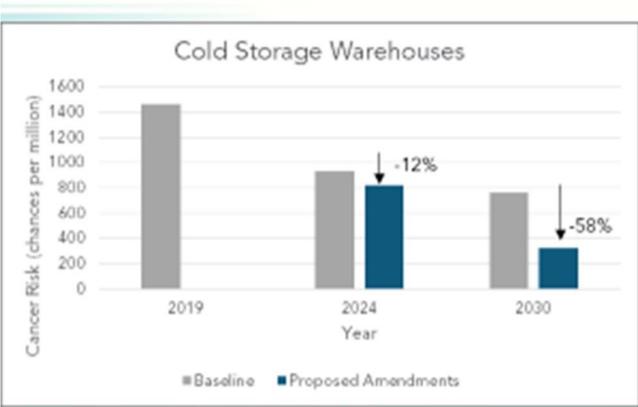
- 1,258 tons of PM2.5
- 3,515 tons of NOx
- 1.42 million metric tons of carbon dioxide equivalents

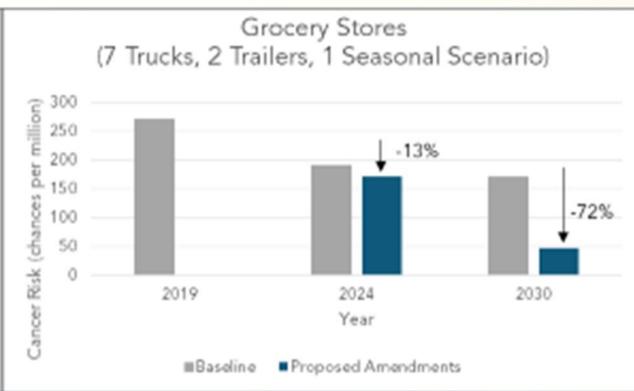






# Estimated Individual Resident Cancer Risk and Risk Reduction







## **Next Steps**

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



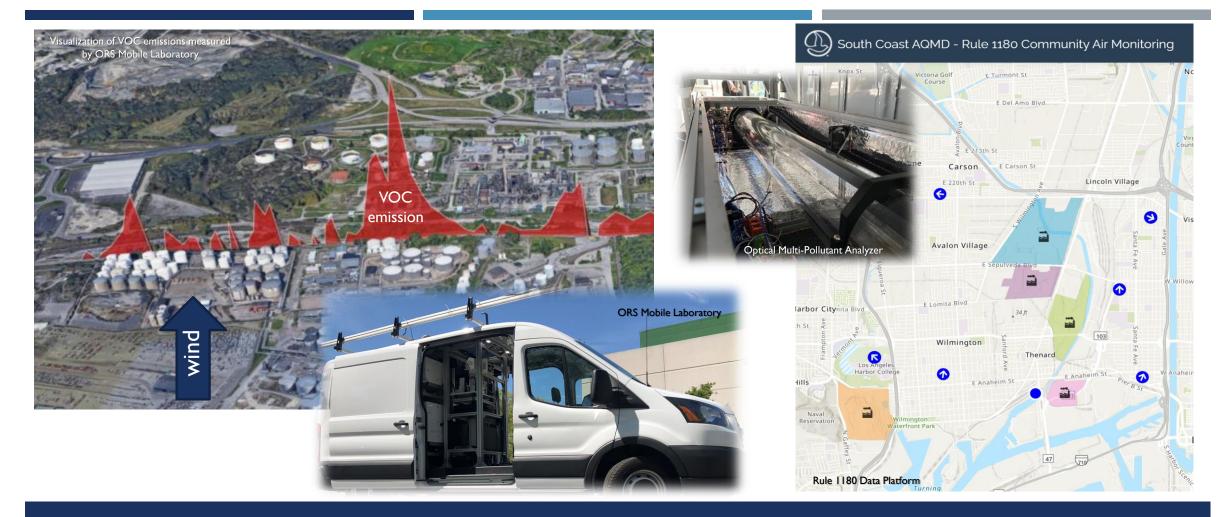
### Additional Information

- TRU webpage: <a href="https://www.arb.ca.gov/TRU">https://www.arb.ca.gov/TRU</a>
- Contacts:

Lea Yamashita, Lead Staff Lea.Yamashita@arb.ca.gov

Cari Anderson, Chief, Freight Transport Branch Cari.Anderson@arb.ca.gov





#### UPDATE ON COMMUNITY AIR MONITORING IN WCWLB

OLGA PIKELNAYA PH.D

PROGRAM SUPERVISOR



#### OUTLINE

Refinery Baseline Measurements:

CERP Refinery VOC Emission Reduction Goal: "Baseline emissions to be assessed by advanced air monitoring techniques, and the progress identified as the ratio of baseline and future measurements using the same methods"

- Overview of Baseline Measurements and Methodology
- Refinery Monitoring:

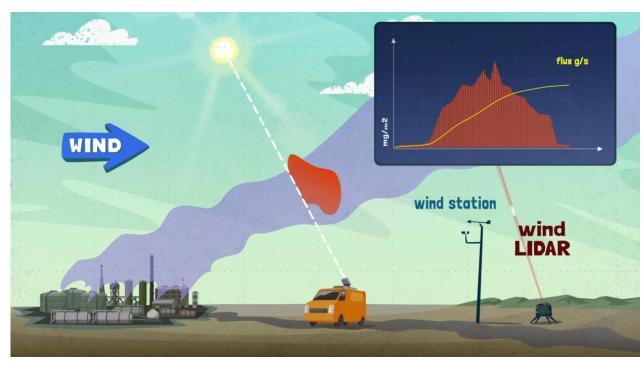
CERP / Action #2: "Conduct refinery air measurements to identify and address VOC leaks"

- Rule I 180 SO<sub>2</sub> refinery exceedance event
- Monitoring Near Oil Wells:

CERP / Action #5: "Conduct mobile air measurements around active, idle and abandoned oil drilling sites to identify potential leaks"

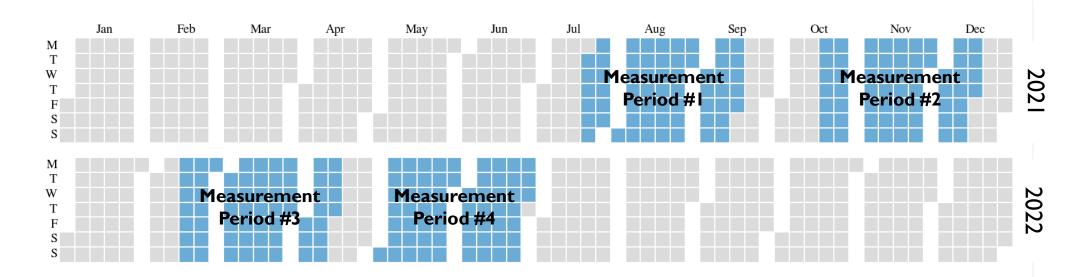
Community Oil Wells Pilot Sampling Initiative

# MOBILE ORS MEASUREMENTS REFINERY EMISSIONS: PRINCIPLE OF OPERATION





## BASELINE REFINERY EMISSIONS: MEASUREMENTS PLAN



- Four 2-month measurement periods distributed over July 2021 through June 2022
  - First measurement period started on 7/20/21
- Minimum of five valid measurement days for each facility
- Highly localized wind data measured near refinery

## REFINERY MONITORING: RULE 1180 PROGRAM \_

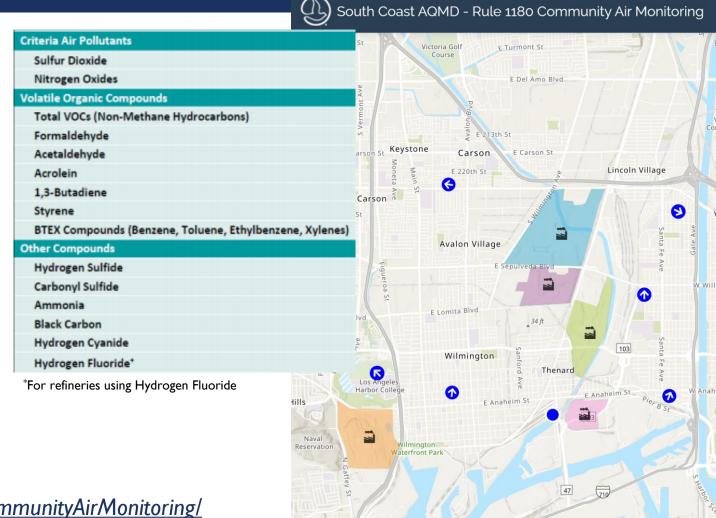
 Rule I 180 Refinery Fenceline and Community Air Monitoring

#### Fenceline Air Monitoring

 Refineries: fenceline air monitoring of air toxics and other pollutants

#### Community Air Monitoring

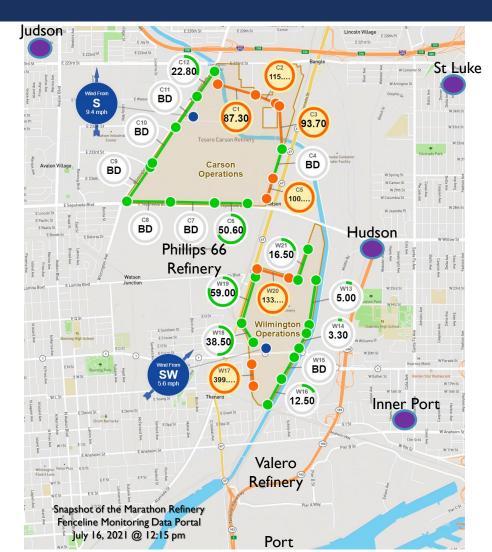
 South Coast AQMD: network of air monitoring stations in communities adjacent to refineries



https://xappprod.aqmd.gov/Rule I 180CommunityAirMonitoring/

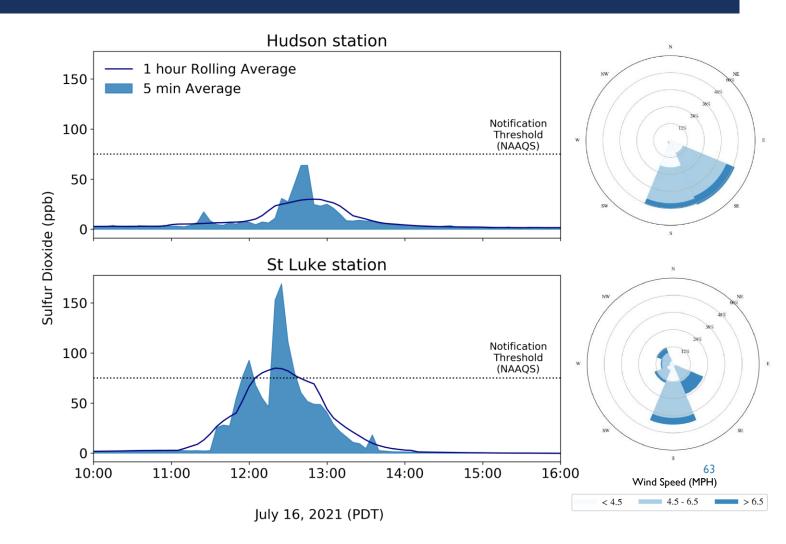
## REFINERY MONITORING: RULE 1180 FENCELINE SULFUR DIOXIDE EXCEEDANCE

- SO<sub>2</sub> exceedances recorded at the Marathon
   Refinery Complex along 6 fenceline paths on July
   16, 2021 between ~11:30 am and ~1:30 pm
  - Exceedance level for sulfur SO<sub>2</sub> is 75ppb (I-hr NAAQS and CAAQS); measured as a I-hr rolling average
  - No exceedances recorded after 1:30 pm
- South Coast AQMD inspectors initiated an on-site investigation, including conducting inspections at Marathon and other refineries in the area; the investigation is still ongoing



## COMMUNITY MONITORING: <u>SULFUR DIOXIDE CONCENTRATIONS IN THE COMMUNITY</u>

- Rule I180 notification threshold was exceeded at St Luke between ~12:00 pm and ~1:00 pm
- All other pollutants remained within typical levels at all monitoring stations in WCWLB
- Winds were coming predominantly from the South



#### COMMUNITY OIL WELLS PILOT SAMPLING INITIATIVE





Picture of a neighborhood oil well.

Source: https://www.theatlantic.com/photo/2014/08/the-urban-oil-fields-of-los-angeles/100799/

- Oil Well emissions are often intermittent and variable in magnitude
- Community member involvement helps address oil well concerns more effectively
- South Coast AQMD has identified and is in the process of procuring suitable hand-held VOC devices for this task
- Collaborative pilot project with C.F.A.S.E. is scheduled to begin in late
   August



#### **DISCUSSION**

Comments, Suggestions, Questions

Please contact:
Olga Pikelnaya
opikelnaya@aqmd.gov
909-396-3157



#### NEXT STEPS

#### Future Announcements

- Newsletters or emails
- Continue CERP implementation

#### Future Meeting

- Tentatively October 14, 2021 (virtual)
- AQ Priority Updates & Agenda Topics
  - ☐ What would you like to hear about?



### Public Comment

#### SOUTH COAST AQMD CONTACTS: WCWLB



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