Assembly Bill (AB) 617: Community Emissions Reduction Plans

YEAR 1 COMMUNITIES
Key elements of AB 617

1. Community Air Monitoring and Emission Reduction Plans
2. Clean Technology Investments
3. Best Available Retrofit Control Technology (BARCT) Rules
4. Easier Access to Emissions Data
Key Milestones

Oct 2018
• Deadline for CARB to set statewide strategy (select Year 1 communities, guidelines, and benchmarks)

July 2019
• Deadline for South Coast AQMD to deploy air monitoring for Year 1 communities

Oct 2019
• Deadline for South Coast AQMD to adopt CERPs for Year 1 communities

Dec 2023
• December 31 – Deadline for South Coast AQMD to implement Best Available Retrofit Control Technology (BARCT)
Community Selection - Considerations

Air pollution data (e.g., MATES IV)

Community Nominations

Additional factors (e.g., past monitoring)

CalEnviroScreen 3.0

School proximity to sources

COMMUNITY SELECTION
Community Selection

Air pollution data (e.g., MATES IV)

- Regional air toxics study
- Air toxics cancer risk
- Diesel particulate matter accounts for 2/3 of risk
- Multiple pollution sources

School proximity to freeways/industry

School proximity to sources

Within 1,000 feet of each school or daycare center for areas zoned for industrial use and freeways, averaged across each census tract

Data from 2012
Community Selection (continued)

CalEnviroScreen 3.0

Pollution Burden
- Exposures
  - Ozone
  - PM2.5
  - Diesel PM
  - Pesticide Use
  - Traffic
  - Drinking Water Contaminants
  - Toxic Releases from Facilities

Population Characteristics
- Sensitive Populations
  - Asthma
  - Cardiovascular Disease
  - Low Birth-Weight Infants

- Environmental Effects
  - Solid Waste Sites and Facilities
  - Cleanup Sites
  - Groundwater Threats
  - Impaired Water Bodies
  - Hazardous Waste Generators and Facilities

- Socioeconomic Factors
  - Poverty
  - Unemployment
  - Educational Attainment
  - Linguistic Isolation
  - Housing Burdened Low Income Households

OEHHA: Office of Environmental Health Hazard Assessment
Community Selection (continued)

Additional factors for consideration

- Community Nominations
- Past or current air monitoring study findings
- Past or current community plans or programs
- Community support, experience and willingness to collaborate with diverse stakeholders
Designated & Potential Future Communities

Communities designated for Year 1
Communities recommended for Year 2
Communities under consideration for Years 3-5*
Communities under consideration for Years 6+

*May be years 3-7, depending on resources and complexity

Total of 55 communities
AB 617 Year 1 Communities

September 2018, CARB designated three Year 1 Communities:

• Wilmington, Carson, West Long Beach
• San Bernardino, Muscoy
• Boyle Heights, East Los Angeles, West Commerce
Community Steering Committees (CSCs)

- CSCs were formed for each of the three communities
- Discussed the community boundary
- Identify and prioritize air pollution concerns
- Guided strategies and provide input for CERPs

**Members include:**
- Active residents and community leaders
- Local business owners or workers, labor unions
- Community organizations
- Local agencies
- Schools
- Hospitals
- Elected officials

**Land use agencies represented:**

- [Logo images for various agencies]
Community Boundary - Example

**Impacted Community:** Area of the community where people live, work, go to school, and spend the majority of their time

**Emissions study area:** Region that includes the sources that affect the Impacted Community
Community Outreach

Extensive Community Outreach:

• 3 Community Steering Committees (CSCs)
• 27 CSC meetings
• 60+ individual meetings
• 2 community bus tours
• 3 Technical Advisory Group meetings
• 6 community workshops
Air Quality Priorities
Wilmington, Carson, West Long Beach Community

- Ports
- Neighborhood Truck Traffic
- Railyards
- Refineries
- Oil Drilling and Production
- Schools, Childcare Centers, Homes
Air Quality Priorities
San Bernardino, Muscoy Community

- Neighborhood Truck Traffic
- Railyards
- Warehouse On-Site Emissions
- Concrete Batch Plants
- Omnitrans Bus Yard
- Schools, Childcare Centers, Community Centers, and Homes
Air Quality Priorities
East Los Angeles, Boyle Heights, West Commerce Community

Neighborhood and Freeway Truck and Automobile Traffic
Railyards
Metal Processing Facilities
Rendering Facilities
Auto Body Shops
General Industrial Facilities, etc.
Schools, Childcare Centers, Community Centers, Libraries and Public Housing Projects
CERP Development

Community-Driven Efforts to Develop the CERPs

• 49 actions (approx. 160 steps) across the 3 CERPs*
• 28 are emission reduction actions
• Each action includes:
  • Suite of strategies
  • Steps
  • Timeline/milestones
  • Metrics to track progress
  • Collaborating entities

*Plans are flexible to adapt to new information
CERP Strategies

- Regulations
- Targeted Monitoring
- Enhanced Enforcement
- Inter-Agency Collaboration
- Public Information & Outreach
- Incentives
- Exposure Reduction (e.g., air filtration systems)

What are the strategies for the CERPs?
Examples of Actions to Reduce Mobile Source Emissions

- Oil tanker VOC leak surveillance
- Incentives for cleaner ships and harbor craft
- Rule development/Memorandum of Understanding (MOU): Ports MOU, Rule 1142, CARB At-Berth, CARB Commercial Harbor Craft

Ports

- Truck idling sweeps & inspections
- Incentives & outreach for cleaner heavy-duty trucks (e.g., Automated License Plate Reader (ALPR) systems)
- Outreach for reporting idling trucks
- Work with cities on truck routes & enforcement
- Regulations: CARB Advanced Clean Truck, Heavy-Duty Low NOx, Heavy-Duty Vehicle Inspection & Maintenance

Examples of local entities:

CSC members

Railyards

- Work with CARB to develop new requirements to reduce railyard emissions
- Incentives for cleaner equipment or infrastructure
- Rule development: Railyard Indirect Source Rule (ISR)
Examples of Actions to Reduce Stationary Source Emissions (continued)

Rendering Facilities
- Mobile air measurements, follow-up inspections
- Community training on air quality complaints

Auto Body Shops
- Small Business Assistance Program outreach
- Work with fire departments to inspect auto body shops
- Mobile air measurements, follow-up inspections

Concrete Batch Plants
- Air monitoring and follow-up
- Outreach to operators
- Enforcement actions as needed
Examples of Actions to Reduce Stationary Source Emissions

**Refineries**
- Mobile measurements to screen all refineries
- VOC leak detection & repair
- Refinery flaring notifications
- Rule development: Rules 1118, 1178, and 1109.1

**Oil Drilling and Production**
- Mobile measurements to screen all wells, collaborate with organizations
- Leak detection and repair
- Oil well notifications
- Rule development: Rule 1148 series (3 rules) and Rule 1173

**Metal Processing Facilities**
- Mobile air measurements, follow-up inspections
- Outreach and training for local business owners

Community Based Organizations
Example of Actions for Exposure Reduction

**Public Outreach and Community Organization Collaboration**
- Asthma management programs
- School-based programs
- Improve health messaging and conduct outreach

**Reduce exposure to air pollutants**
- Air filtration systems

**Examples of community based organizations:**
- South Coast AQMD
- Los Angeles Unified School District Board of Education
- AltaMed
- COFEM (Council of Mexican Federations)
Emissions Reduction Targets
Wilmington, Carson, West Long Beach Community

SOUTH COAST AQMD AND CARB ACTIONS

<table>
<thead>
<tr>
<th>Emissionsa</th>
<th>NOx</th>
<th>SOx</th>
<th>VOC</th>
<th>DPM</th>
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</thead>
<tbody>
<tr>
<td>2017 Emissions (tpy)</td>
<td>10,614</td>
<td>1,437</td>
<td>5,641</td>
<td>120</td>
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<tr>
<td>Projected 2024 Emissions Baseline (tpy)</td>
<td>8,819</td>
<td>1,659</td>
<td>5,306</td>
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<td>Emission Reductions from CERP, by 2024 (tpy)</td>
<td>606</td>
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<td>20.6</td>
<td>9</td>
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<td>Emission Reductions from CERP, by 2024b (%)</td>
<td>7</td>
<td>--</td>
<td>&lt;1</td>
<td>10</td>
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<tr>
<td>Projected 2029 Emissions Baseline (tpy)</td>
<td>9,250</td>
<td>1,715</td>
<td>5,256</td>
<td>93</td>
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<td>Emission Reductions from CERP, by 2030 (tpy)</td>
<td>3,207c</td>
<td>11</td>
<td>64</td>
<td>20</td>
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<tr>
<td>Emission Reductions from CERP, by 2030c (%)</td>
<td>35d</td>
<td>&lt;1</td>
<td>&lt;1</td>
<td>22</td>
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</table>

aPer CARB guidance, the emissions baseline was estimated for 2017, and milestone years 2024 and 2029. However, the emission reductions in this table target a 2030 completion date. While the baseline emissions were not calculated for 2030, staff expects the emissions to be similar to the 2029 estimates.
bPercent calculated based on 2024 emissions baseline
cBased on maximum NOx emission reductions that may be achieved from the adoption of Rule 1109.1 – Refinery Equipment
dPercent calculated based on 2029 emissions baseline
### Emissions Reduction Targets

**San Bernardino, Muscoy Community**

#### SOUTH COAST AQMD AND CARB ACTIONS

**CERP Diesel Particulate Matter (DPM) Reductions in 2024 and 2029:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Emission Reductions (tpy)</th>
<th>NOx</th>
<th>DPM</th>
</tr>
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<tr>
<td>2024</td>
<td>75.1</td>
<td>0.86</td>
<td>0.86</td>
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<td>2029</td>
<td>127.9</td>
<td>0.91</td>
<td>0.91</td>
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- **a** Per CARB guidance, the emissions baseline was estimated for 2017, and milestone years 2024 and 2029
- **b** Percent calculated based on 2024 emissions baseline
- **c** Percent calculated based on 2029 emissions baseline
Emissions Reduction Targets
East Los Angeles, Boyle Heights, West Commerce Community

SOUTH COAST AQMD AND CARB ACTIONS

CERP Diesel Particulate Matter (DPM) Reductions in 2024 and 2029:

<table>
<thead>
<tr>
<th>Emissions</th>
<th>NOx</th>
<th>DPM</th>
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</thead>
<tbody>
<tr>
<td>2017 Emissions (tpy)</td>
<td>2,710</td>
<td>34.8</td>
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<tr>
<td>Projected 2024 Emissions Baseline (tpy)</td>
<td>1,841</td>
<td>13.2</td>
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<tr>
<td>Emission Reductions from CERP, by 2024 (tpy)</td>
<td>143</td>
<td>1.2</td>
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<td>Emission Reductions from CERP, by 2024(^b) (%)</td>
<td>8</td>
<td>9</td>
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<tr>
<td>Projected 2029 Emissions Baseline (tpy)</td>
<td>1,851</td>
<td>11.2</td>
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<td>Emission Reductions from CERP, by 2029 (tpy)</td>
<td>377</td>
<td>1.4</td>
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<tr>
<td>Emission Reductions from CERP, by 2029(^c) (%)</td>
<td>20</td>
<td>13</td>
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</tbody>
</table>

\(^a\) Per CARB guidance, the emissions baseline was estimated for 2017, and milestone years 2024 and 2029
\(^b\) Percent calculated based on 2024 emissions baseline
\(^c\) Percent calculated based on 2029 emissions baseline
More Information on the CERPs

Wilmington, Carson, West Long Beach:

San Bernardino, Muscoy:

East Los Angeles, Boyle Heights, West Commerce:
Next Steps for Year 1 Communities

- **January 2020**: CARB Workshop tentatively scheduled in Basin
- **Spring 2020**: CARB Board consideration of CERP
- **2020 – 2024 (approx.)**: CERP Implementation
For Additional Information

AB 617 website: [www.aqmd.gov/AB617](http://www.aqmd.gov/AB617)

Email: AB617@aqmd.gov

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