Improving Neighborhood Air Quality

AB 617: Community Health Protection Program

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May 14, 2018
1. Air Quality and Health
2. What is AB 617?
3. Select Communities for Action
4. Resources to Improve Air Quality
Air Quality and Health

1. Air Pollutants
   - emission rates
   - types of emissions

2. Ambient Concentration
   - types of pollutants
   - topography
   - wind patterns

3. Exposure and Dose
   - breathing rate
   - location
   - time

4. Health Effects
   - dose
   - susceptibility
Air Quality and Health

Regional

- Criteria pollutants
- Ambient air quality standards
- Regional exposure

Community

- CARE (2004)
- AB 617 (2017)
- Cumulative impacts

Facility

- Toxics
- Health risk assessments
Program Goals

• Community Participation
• Eliminate Air Quality Disparities
• Reduce Health Burdens
• Continuous Evaluation and Improvement
AB 617 requires state to select additional communities for monitoring and/or action plans annually, beginning Oct 2019.
Under AB 617, the state requires districts to work with communities to select all areas in the region that have a “high cumulative exposure burden” and then prioritize areas for community monitoring and/or actions plans over the next 6 years.
Criteria Used to Select *All Areas* with High Air Pollution Impacts

**CARE**
- High pollutants
  - fine particles
  - toxics
  - ozone
- Mortality
- Cancer risk
- ER visits and hospitalizations due to air pollution

**Health and Vulnerability**
- Life expectancy
- Low birth weight
- Diesel exhaust
- Traffic
- Socioeconomic factors
- Education
- Housing costs
- Access to transportation

**Large Sources**
- Oil refineries
- Cement plants
- Chemical plants
- Marine ports
- Airports
Recommendations

- CARE
- Areas with large sources
- Areas with health and pollution impacts
- Areas with low life expectancy
Petroleum refineries and chemical plants

Organics recovery and waste facilities

Organic Liquids storage and distribution facilities

Marine terminals

Petroleum coke terminal

Port of Richmond

Metal facilities

Other industrial and manufacturing operations

Freeways, roadways and rail
How should we select communities for action?

**Air Quality**
- Fine particles
- Toxics

**Health**
- Life expectancy
- Lung disease
- Heart disease

**Other Ideas**
- ?
Where should future money focus?

- Trucks
- Buses
- Locomotives
- Construction Equipment
- Agriculture Equipment
• Overall support for community selection
• Improve Air District permitting process
• Prevent increased air pollution in overburdened communities
• Provide grants to communities to do community outreach
• Challenge what is acceptable air pollution
• Be transparent, open, and accountable
How should we prioritize areas for action?

What other pollution or exposure reduction projects should we fund?
How should we select communities for years 2-5?

Map it!
Where should we focus?
Where are sources of pollution?

How concerned are you about the air pollution caused by various equipment types?

What does success look like?

Interactive Stations