Improving Neighborhood Air Quality

AB 617: Community Health Protection Program

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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

Air Pollutants
- emission rates
- types of emissions

Ambient Concentration
- types of pollutants
- topography
- wind patterns

Exposure and Dose
- breathing rate
- location
- time

Health Effects
- dose
- susceptibility
Community

Regional

- Criteria pollutants
- Ambient air quality standards
- Regional exposure

Facility

- Toxics
- Health risk assessments

Criteria pollutants

AB 617 (2017)

Regional Facility

CARE (2004)

cumulative impacts

Air Quality and Health

Ambient air quality standards

Standards

1

Toxics

Health risk assessments

Cumulative impacts

Regional exposure

CARE (2004)

AB 617 (2017)
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.

What is AB 617?

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
Select Communities for Action

3

Waste facilities

Airport

Research laboratories

Quarries

Cement and asphalt plants

Construction and agriculture equipment

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
?
$50 Million to Bay Area

$200 Million Rest of State

- Trucks
- Buses
- Locomotives
- Construction Equipment
- Agriculture Equipment

Where should future money focus?
• 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?
Thank You!
How should we select communities for years 2-5?

Where should we focus?
Where are sources of pollution?

What does success look like?

Interactive Stations

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