



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

# Bay Area Clean Air Communities Initiative

## Cumulative Impacts Work Group March 5, 2009

Henry Hilken  
Director of Planning & Research

A wide-angle photograph of the Golden Gate Bridge in San Francisco, California, spanning across the water with the city skyline in the background. The bridge is a prominent red-orange color.

# Bay Area Clean Air Communities Initiative

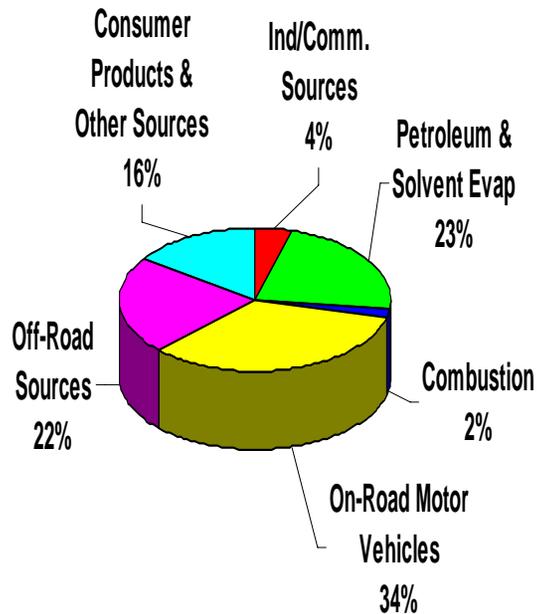
- Multifaceted approach to cumulative impacts
  - Identify Impacted Communities
  - Continue targeting grants and incentives to impacted areas
  - Continue community outreach and education
  - Focused enforcement of state and District regulations
  - Monitoring local air quality
  - Develop targeted regulations
    - Indirect Source Rule
    - Permitting requirements



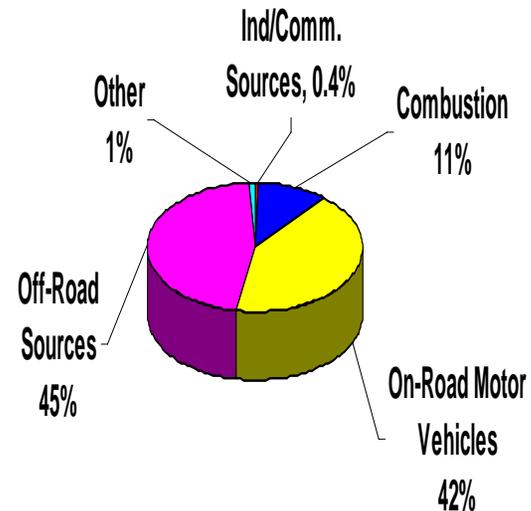
# Bay Area Clean Air Communities Initiative

## 2006 Ozone Precursor Emissions

**Reactive Organic Gases (ROG)**  
409 tons/day



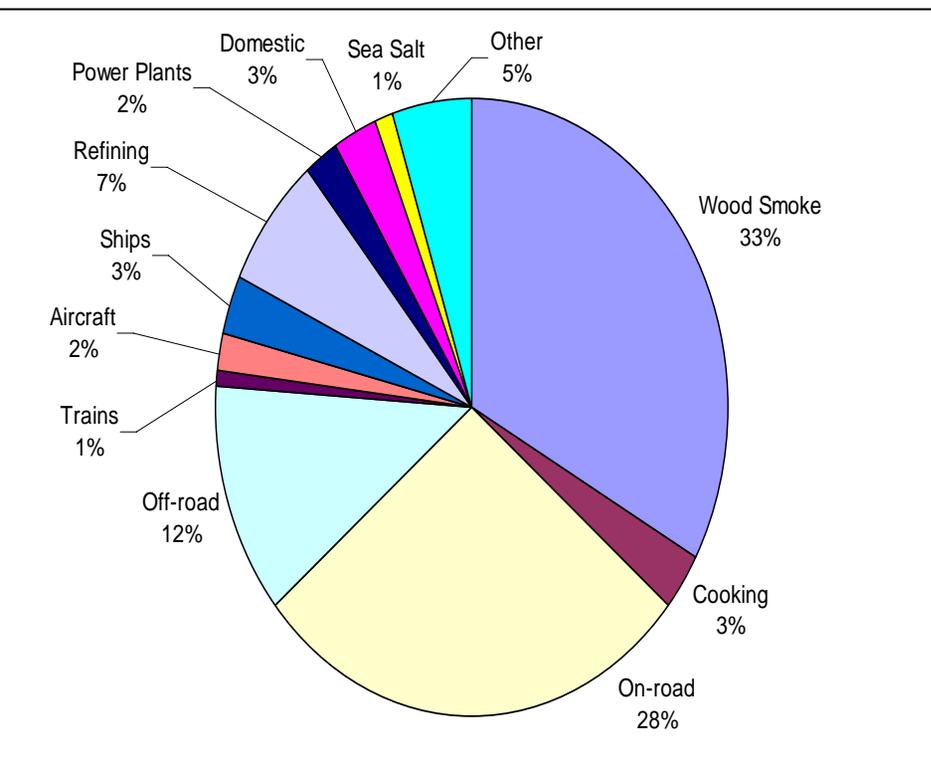
**Oxides of Nitrogen (NOx)**  
540 tons/day



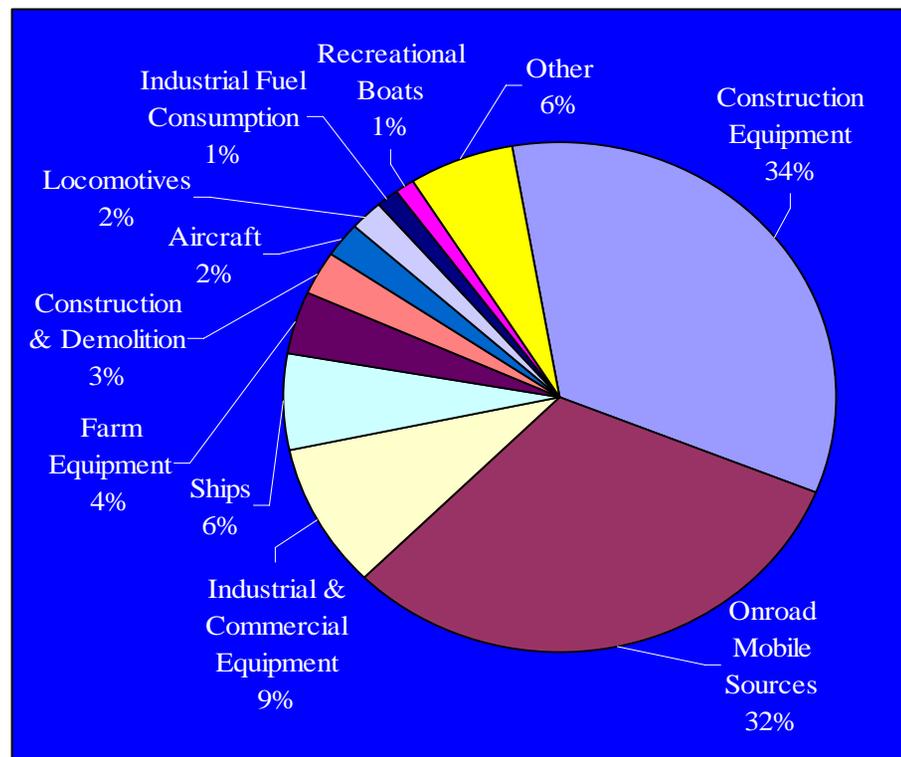


# Bay Area Clean Air Communities Initiative

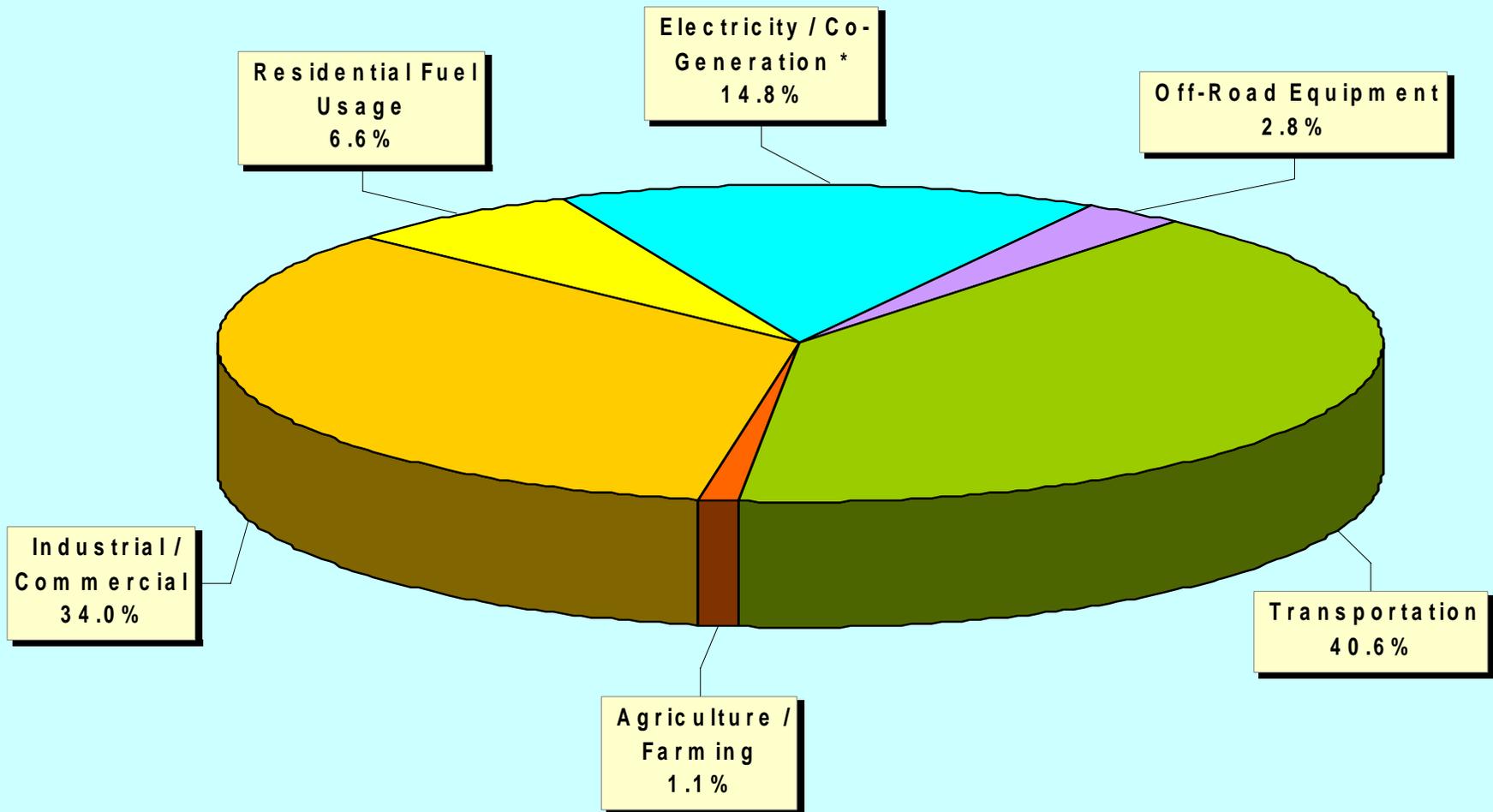
## Sources of Winter PM2.5



## Sources of Risk Weighted Emissions



**Figure 2: 2007 Bay Area GHG Emissions by Sector**



**Total emissions: 102.6 million metric tons/year**



# Bay Area Clean Air Communities Initiative Concept

A Comprehensive Regulatory Initiative to Mitigate  
Air Quality Impacts of Land Use Decisions and Assist  
in Addressing the Impacts of Growth on our Climate

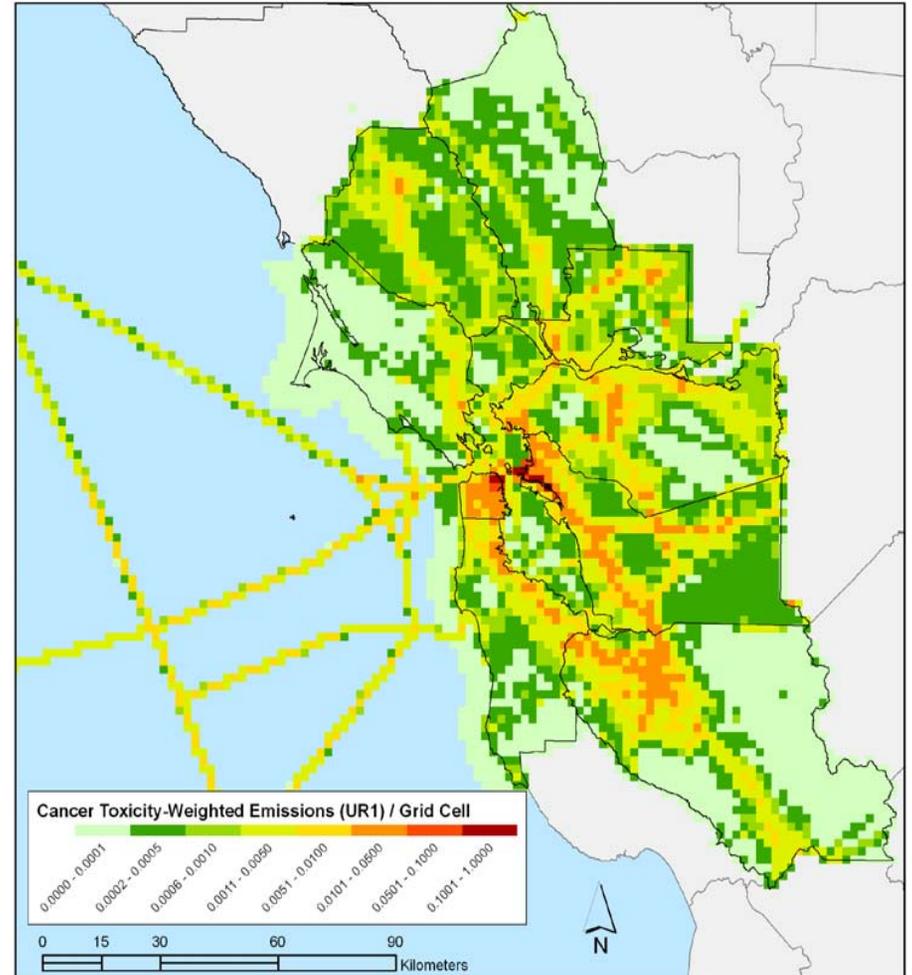
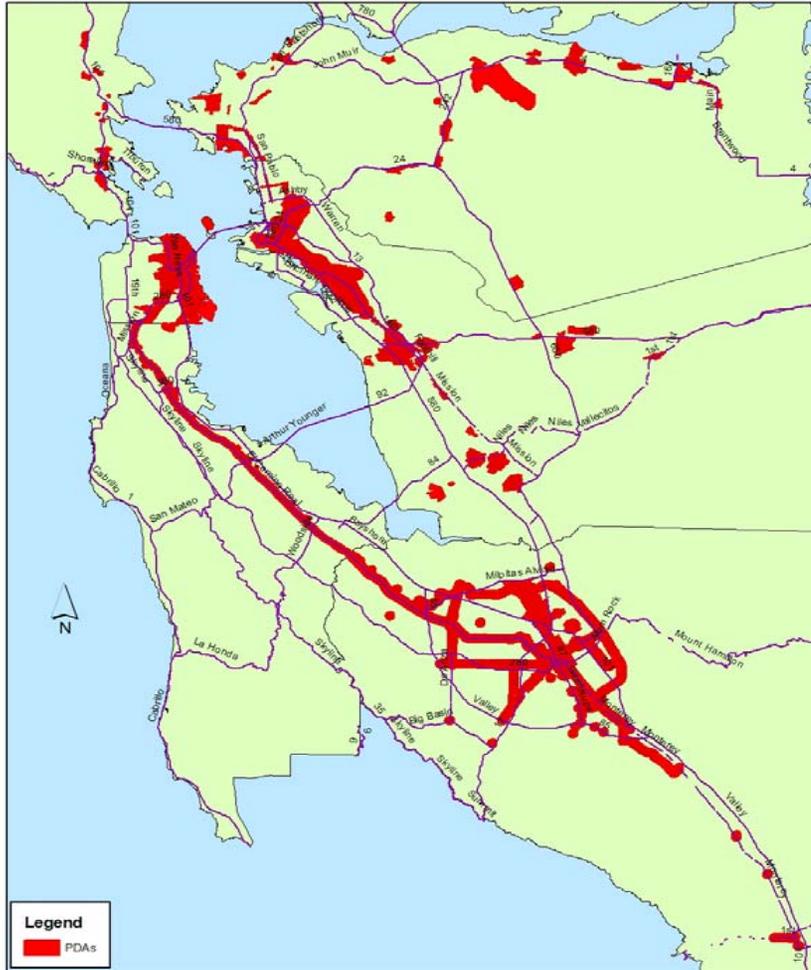


# Bay Area Clean Air Communities Initiative - Why

- New development will resume, Vehicle Miles Traveled will continue to rise, transportation related impacts will continue
- Need to promote strategies that support livable communities, e.g. Priority Development Areas
- CARE Program has identified impacted communities
  - Impacts due to land use decisions in cities and counties
  - Address cumulative impacts through District undertaking additional review of activities in these areas
- How the Bay Area grows will affect the region's ability to curb greenhouse gases and meet SB 375



# Priority Development Areas





# Bay Area Clean Air Communities Initiative - What

- Address impacts of growth on regional and local air quality
- Reduce GHG emissions from land use and transportation, help meet SB 375 targets
- Support and implement CARE program priorities and goals
  - Avoid land use conflicts and reduce exposure in impacted communities
  - Address cumulative impacts in impacted communities



# Clean Air Communities Initiative - Targeted Regulation

## Proposed Indirect Source Rule

- Standards for new development to minimize emissions of criteria and toxic pollutants and GHGs.
- Establish official Impacted Communities in the Bay Area where additional review of new and modified stationary sources is performed.
- Focused review of new development proposed in Impacted Communities.



# Clean Air Communities Initiative - Targeted Regulation (Continued)

- Require more stringent permitting requirements of stationary sources when in:
  - proximity to sensitive sources
  - impacted communities
- Establish an air quality/GHG fee for new development. Fee would be used to create offsets for new developments over designated threshold.
- Fee reductions or exemptions and additional incentives for in-fill development and PDAs.
- Delegation agreement provisions for local cities and counties.