

## Prioritizing Public Health and Equity in Climate Resiliency Solutions

Bay Planning Coalition January 26, 2023

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### Air District Climate Program

Prioritize greenhouse gas mitigation from major sources:

- Buildings (efficiency, clean electricity and decarbonization)
- Transportation (EV funding, VMT reduction, reducing diesel

Where adaptation and mitigation intersect:

- Wildfires
- Urban heat islands





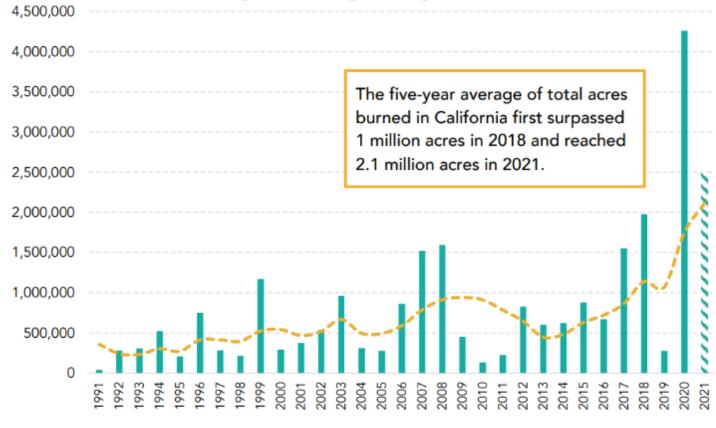




# California Wildfires Growing in Number and Intensity

#### Annual Wildfire Acres Burned in California

with 5-year Moving Average (1991-2021)



Total Acres

--- 5-year Average

Note: 2021 acres burned is a preliminary estimate through 10/25/2021.

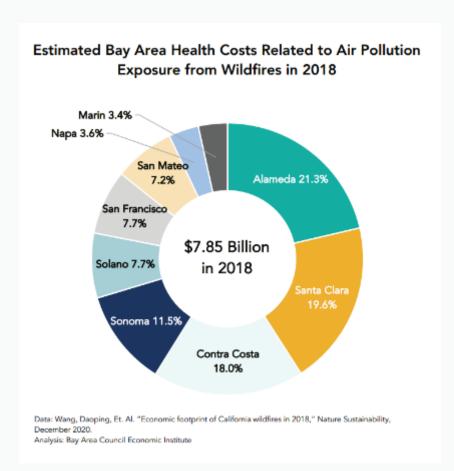
Data: CAL FIRE

Analysis: Bay Area Council Economic Institute

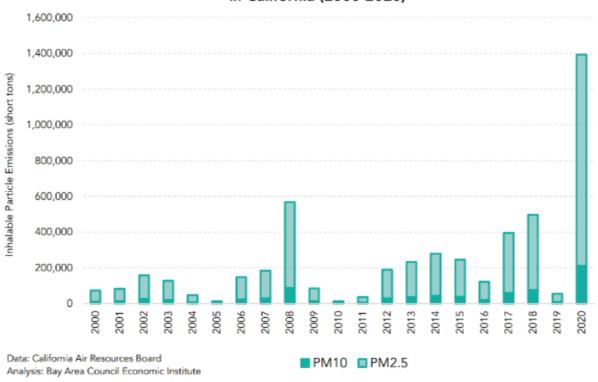
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## Consequences of Wildfires



#### Annual Wildfire Emissions Estimates for Inhalable Particulate Matter in California (2000-2020)





#### Wildfire Adaption Strategy:

- School/Home Air Filtration Program
- Clean Air Centers

Provide vulnerable communities most impacted by climate change access to cleaner air when wildfire smoke impacts the region.





#### Air Filtration Programs

#### Home Air Filtration Program

- Provide portable air filtration units to low-income residents with poorly controlled asthma
- Impacting 3,000 Bay Area residents
- Partners: Regional Asthma Management and Prevention (RAMP), county health offices, non-profits



#### School Air Filtration Program

- Install and maintain high performance air filtration systems in 12 schools in communities disproportionately impacted by air pollution
- Alameda, Contra Costa, and San Francisco Counties





#### Clean Air Centers

#### Criteria

- 1. Located in schools in or near historically underserved communities
- 2. Provide easy access for vulnerable populations
- 3. Capacity to meet the needs of vulnerable populations
- 4. Ready for ventilation and filtration installation, upgrades, or retrofits



#### Recommended Facility Types

- Community Centers
- Libraries
- Schools
- Senior Centers
- Sports Centers

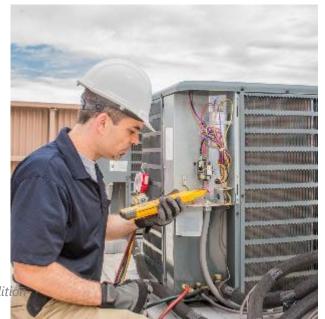




#### Clean Air Centers: Project Types

#### Facility Ventilation Upgrade

- HVAC system (MERV 13+), insulation, weatherization, etc.
- In smoke burdened areas and historically underserved communities



#### Portable Air Purifier

- Industrial size to serve public spaces
- Priority given to historically underserved communities



#### Filter Replacements

- Hospital grade filter(MERVE 13+) replacement upgrades
- Priority given to historically underserved communities



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## Direct Resources to Vulnerable Communities



High Air Pollution Burden Health Sensitive Populations Socioeconomic Challenges



















#### Implementation

- BAAQMD partnered with city and county level Emergency
   Services and Public Health offices to oversee clean air centers
- Outreach to both community and environmental justice groups to help identify publicly available clean air center sites
- BAAQMD communications office will alert partners and media when wildfire smoke impacts the region and recommend opening of centers
- First Clean Air Center opened September 2022 at San Francisco Bayview Branch Library



