About us

What we do
Protect public health, improve air quality, and prevent climate change

How we do it
Bring interested parties together to find solutions to pressing air quality issues

Why we do it
9 out of 10 Californians breathe air that violates clean air standards
What is CLEAR?

CCA’s program to help make the invisible visible through community air quality monitoring and STEM education
Why make air visible?

Scientific studies conclusively show that minimizing children’s air pollution exposure provides benefits for their lifetime.
“Living in proximity to a freeway, refinery, major industry and other factors such as time of day can be the difference between ‘good’ and ‘hazardous’ levels of exposure.”

South Coast Air Quality Management District, 2013
Community Air Monitoring

The air quality monitoring program provides a means to make community members aware of their exposure to unhealthy air with real-time data.
Community Air Monitoring

Since 2017, CCA has deployed almost 170 Purple Air particulate matter sensors at no cost to sensor hosts.

What’s needed:
• A suitable, shaded or partially shaded location
• An accessible outdoor power outlet
• A stable Wi-Fi connection
• A waiver release form
In California, air pollution is only monitored on a regional scale. That’s 272 active monitors for 38 million people. This simply isn’t enough. It has been well documented that air pollution can vary greatly by location and geography. Living within close proximity to a freeway, refinery, major industry and other factors such as time of day can be the difference between “good” and “hazardous” levels of exposure.
Left: April 25th PM 2.5 Readings

Right: PM 2.5 readings during April 22nd auto dismantler fire in Wilmington
Community Air Monitoring Goals

Near Term

Maywood AB 617 Community Air Monitoring & Alameda Corridor Project

Long Term

Thousands of monitors in homes, schools, & businesses. New networks for ozone, VOC, & GHGs. Full integration across multiple types of monitors
CLEAR in Schools

A unique STEM program that takes advantage of students’ natural affinity with technology by linking their mobile phones directly with air quality monitors and connecting with scientists and policy-makers in their community.
Recent school presentations at Hughes Middle School in Long Beach and Dana Middle School in San Pedro
Educational Goals

Near Term

At least 2 Participating schools per year, one of which being a Title 1 school (majority of children from low-income families)

Long Term

100 Participating schools representing a wide geography in California, with at least half classified as Title 1 schools
Let’s CLEAR the air together!

To Participate:

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