Program Name		Summary	Participants	Website/Sources	State	Active/Inactive	Intended data use	Contact Info	Internal References	External References
Citizens Air Complaint Program	Air	The New York City Department of Environmental Protection (DEP) developed an online system which citizens anywhere in the city can use to report automobiles violating local anti-idling laws. Citizens who observe a vehicle idling for more than three minutes — or one minute while adjacent to a school — can call 311 or use this online reporting system to file a complaint (which can be anonymous if the person so chooses). Citizens who report violators receive a portion of the money paid to law enforcement in the form of a fine. By incorporating community participation, this program has successfully increased enforcement of this local law and reduced a major source of urban air pollution.	Leader: New York City Department of Environmental Protection	https://www1.nyc.gov/site/dep/environment/idling-citizens-air-complaint-program.page	New York	Active	Regulation and enforcement	Geraldine Kelpin citizencom@dep.nyc.gov, call 311		CSR, https://sustainableamerica.org/blog/how-to-get-paid-to-report-idling-in-new-york-city/; https://www.nytimes.com/2022/03/19/nyregion/clean-air-idle-car.html;
Imperial County Community Air Monitoring Project	Air, Environmental Justice	The Imperial County Community Air Monitoring Project was started in 2013 by the community group Tracking California, with help from a local organization Comite Civico del Valle, the University of Washington, and others with funding from the National Institutes of Environmental Health Sciences. The project connects scientists, community advocates, and local residents, and to establish a community air monitoring network (CAMN) to collect air quality data for research while providing useful information residents. Air sensors have been quality tested by the California Air Resources Board. The research aim of the project was to assess whether air quality levels from a CAMN could identify "hot spot" areas in Imperial County and improve public health outcomes. Readings from air monitors can be seen on the project's IVAN website, and many monitors are maintained by youth advocates and placed in schools. The real-time air monitoring data are being used to better understand and reduce exposures to air pollution.	Leader: Tracking California Stakeholders: Comite Civico del Valle, University of Washington, California Department of Health, California Air Resources Board, EPA Region 9	https://trackingcalifornia.org/imperial-air-project/imperial-air-project-landing	California	Active	Information	Co-Investigator: michelle.wong@trackingcalifornia.org	IVAN Map: https://www.ivan-imperial.org/air	CSR; https://www.niehs.nih.gov/research/supported/translational/community/imperial/index.cfm
Louisiana Bucket Brigade	Air, Environmental Justice	This Louisiana based non-profit organization that uses grassroots action to hold the petrochemical industry and government accountable for the true costs of and unequal exposure to pollution through environmental justice and grass roots community organization. The organization provides support in the areas of media, air monitoring, organizing, cartography, accident research and report writing. This organization seeks to amplify the voices of already existing community action groups by providing them with training and by connecting them to other advocacy groups and governmental agencies which may be able to assist further (ex. connecting them to EarthJustice for legal representation). LABB manages the iWitness Pollution Map in partnership with the Gulf Monitoring Consortium (GMC). This map is a repository of eyewitness reports and photos of pollution in the Gulf Region from affected citizens, NGO's, government agencies, and the parties responsible for the pollution.	Leader: Louisiana Bucket Brigade Stakeholders: Louisiana Department of Environmental Quality, Gulf Monitoring Consortium	https://labucketbrigade.org/	Louisiana	Active	Information, Agency management	Louisiana Bucket Brigade: (504) 484-3433 info@labucketbrigade.org	IWitness Map: https://labucketbrigade.org/pollution-tools-resources/iwitness-pollution-map/	https://www.nationalgeographic.org/article/real-world-geography-louisiana-bucket-brigade/; https://www.scientificamerican.com/citizen-science/louisiana-bucket-brigade/
Louisville Data Commons	Air	Partnership between the local government and a community based organization, that maintains an open source platform to which citizen scientists and researchers can submit data. The city and volunteers sit on the board for the platform and review the data before data can be added. The platform allows citizen scientists and researchers to access and contribute to public knowledge about the health of the air, water and soil in the Louisville area. Data currently on the site includes commercial, culture, environmental, geography, land use, neighborhoods, socioeconomic, and urban development information about Louisville.	Leader: University of Louisville (Christina Lee Brown Environment Institute at the University of Louisville)	https://louisvilledatac	Kentucky	Active	Information	envirome@louisville.edu		
Mecklenburg County Community Science Station	Air	In 2019, Mecklenburg County Air Quality (MCAQ) installed a Community Science Station (CSS) where local residents could bring their personal air sensors and test their accuracy. The CSS is an aluminum monitoring shelter near the MCAQ's quality-assured regulatory monitors where residents, researchers, students and advocates can temporarily leave their sensors to collect data. The personal sensors' readings are then compared to readings from the regulatory sensor for the same time period. All participants of this program agree to share their personal sensor's data with the MCAQ so that the agency may gather information on the accuracy of existing personal air sensor technology and areas where the technology could be improved for use in future regulatory decision making.	Leader: Mecklenburg County Air Quality	https://www.mecknc.gov/LUESA/AirQuality/EducationandOutreach/Pages/PersonalAirSensors.aspx	North Carolina	Active	Agency management	Megan Green 704-336-5430, WebAQ@MecklenburgCountyNC.gov		CSR
Navajo Nation methane monitoring	Air, Environmental Justice	Activists from the Diné (Navajo) community use infrared cameras on Navajo Nation land to track environmental harms from methane released by the oil and gas industry. On this location, methane emissions are 65% higher than the national average due to oil and gas production. More broadly, the federal government partially relies upon activists to using infrared cameras improve public understanding of the scope of air pollution near fossil fuel sites all around the country to help better regulate the industry and improve quality of life for people near these sites.	Leaders: Members of the Navajo Nation	https://nexusmedianews.com/methane-is-leaking-over-native-grounds/?utm_medium=email	Navajo Nation (Arizona, New Mexico)	Active	Information, Regulation and enforcement			https://subscriber.politicopro.com/article/eenews/2021/12/23/ej-communities-could-monitor-industry-methane-under-epa-rule-284184; https://nmpoliticalreport.com/2021/11/04/activists-are-hopeful-that-epa-proposed-methane-regulations-will-reduce-emissions/; https://grist.org/health/low-cost-sensors-are-helping-communities-find-gaps-in-air-quality-data/

Name	Category	Description	Leaders/Stakeholders	Link	State	Status	Type	Contact	Resources	Further Links
New York State Community Air Screen Program	Air	This community-based program is led by the New York Department of Environmental Conservation (DEC) and works with local conservation groups or interested citizens to test communities for toxic air pollutants. Groups or individuals from across the state are permitted to apply for the CAS program, and selected communities receive the training and equipment necessary to collect air samples. The DEC then analyzes the air samples and provides an explanation of the results. The goal of the Community Air Screen program is to provide citizens with the means to investigate their own community's air conditions. Identifying these pollution hotspots allows community advocacy groups to work with DEC and the community on a localized level to figure out how to best address the issue. However, the information collected by these sensors are not used for regulatory and enforcement purposes.	Leader: New York Department of Environmental Conservation	https://www.dec.ny.gov/chemical/81629.html#:~:text=DEC's%20CAS%20program%20helps%20community,to%20participants%20in%20the%20program.	New York	Active	Agency management	CAS@dec.ny.gov 518-402-8402	Informational videos from NYSDEC about the equiment used: https://youtu.be/aSnFSitPicQ ; https://youtu.be/iItPPc2tXlU	CSR
Owning Our Air: The West Oakland Community Action Plan	Air, Environmental Justice	In 2018, West Oakland was selected as the first Bay Area community to develop a community air plan under AB617 — legislation which encourages utilizing community engagement efforts to resolve local air pollution issues. The West Oakland Environmental Indicator Project co-led these efforts and produced a community action plan called "Owning Our Air," drafted with input from resident steering committees and Bay Area Air Quality Management District. The plan emphasizes participatory research being a factor in future decision-making, and it set out a long list of actions to be taken by many different agencies and other actors to improve air quality.	Leaders: Bay Area Air Quality Management District and West Oakland Environmental Indicators Project	https://www.baaqmd.gov/community-health/community-health-protection-program/west-oakland-community-action-plan	California	Inactive	Agency management	Joshua Abraham (Senior Staff Specialist, Community Engagement and Policy): 415.749.8408 jabraham@baaqmd.gov	Presentation slides: https://www.baaqmd.gov/~/media/files/ab617-community-health/west-oakland/2020_1101_wo_annual_report_slide_deck-pdf.pdf?la=en; Video about the project: https://3c28205454f51dc5873c-044855d014b61dca2de7a8e9ba3edeee.ssl.cf2.rackcdn.com/BAAQMD_WOEIP_Annual_Report_diff.mp4	https://abc7news.com/west-oakland-air-pollution-black-and-latino-residents-abc-equity-report-bay-area-quality/11058102/
Puget Sound Sensor Map	Air	The Puget Sound Sensor Map project combines air quality data collected by the public and regulatory agencies in a single interface and shows health-based and instantaneous particle pollution for the Agency's four-county region. The Map (http://apps.pscleanair.gov/) automatically pulls in data from every PurpleAir monitor in the group's jurisdiction, calibrates it relative to the nearest regulatory monitor, then displays the data from both the regulatory and PurpleAir monitors on the same map. The agency has helped to install PurpleAirs in areas of concern or in gaps in our regulatory monitoring network for a number of communities, and also has some of sensors available for rent. These are efforts to develop outreach material to educate communities and the public about these low-cost air monitors.	Leaders: Puget Sound Clean Air Agency	https://pscleanair.gov/570/Air-Quality-Sensor-Map	Washington	Active	Information	sensors@pscleanair.org; Puget Sound Clean Air Agency: 206-343-8800	CSR_Purple Air Sensor Map: https://www2.purpleair.com/ ; Pugent Sound Sensor Map: http://map.pscleanair.org/?lat=47.6768311&lon=-122.4756425&z=9 ; Powerpoint Pres: http://dl.pscleanair.org/AWMA_Community_Monitoring.pptx	
Smell Pittsburgh	Air (Odor)	The phone app "Smell Pittsburgh" allows users to crowdsource reports of concerning odors. By doing so, the Allegheny County Health Department can better monitor and take note of pollutant levels and air quality throughout the Pittsburgh-area. Analyzing patterns in the reporting of odors may help identify pollution sources and health risks since submitted reports contain the date, time, location, rating, and description of the odor, as well as any related health symptoms. Incorporating community input into the app development process increased transparency in the data, which led to additional community input. Currently, regulatory agencies do not use this data given its partially qualitative nature.	Leaders: Allegheny County Heath Department; Stakeholders: Carnegie Mellon University Create Lab, Clean Air Council, Sierra Club, PennEnvironment	smellpgh.org	Pennsylvania	Active	Information, Agency management	Carnegie Mellon Create Lab: info@cmucreatelab.org (412)-268-2568	data visualization: https://smellpgh.org/visualization?share=true&date=20220615&zoom=11&latLng=40.394,-79.914&city_id=1	CSR; https://www.utimes.pitt.edu/news/new-pitt-cmu-staff-school
The Peñuelas Project: Air Monitoring in Puerto Rico	Air, Environmental Justice	The Tallaboa/Encarnación community in Peñuelas, Puerto Rico partnered with the EPA and is using EPA's Air Sensor Toolbox for Citizen Scientists to provide the community with the tools to begin an environmental monitoring study of air quality in the area. This study can potentially help improve air quality for residents in the community who are suffering from the impacts of air pollution.	Leaders: EPA & local community	https://19january2017snapshot.epa.gov/sites/production/files/2016-04/documents/citizen_science_air_monitoring_in_puerto_rico_fact_sheet.pdf	Puerto Rico	Active	Agency management	Citizen science coordinator Patricia Sheridan: sheridan.patricia@epa.gov	https://19january2017snapshot.epa.gov/sites/production/files/2016-04/documents/citizen_science_air_monitoring_in_puerto_rico_fact_sheet.pdf;	https://www.researchgate.net/publication/321190882_Low_Cost_Air_Quality_Sensor_Deployment_and_Citizen_Science_The_Penuelas_Project
West Oakland Environmental Indicators Project	Air, Environmental Justice	This local citizen-led organization seeks to address air pollution problems originating in the community, from the port of Oakland and other sources. It seeks to promote environmental justice in the area by building relationships between impacted residents, city officials, and other local stakeholders. The group educates local community members through classes on environmental topics. The group launched the Oakland Shoreline Leadership Academy in 2021 in an effort to give West Oakland residents a voice in shoreline planning. Students in the community help conduct asset mapping, develop a community engagement plan and co-develop improvement projects on the shoreline, and the organization's work aids residents in understanding how their lives are impacted by political, social, and natural forces.	Leader: West Oakland Environmental Indicators Project; Stakeholder: Bay Area Air Quality Management District	https://woeip.org/	California	Active	Information	Margaret Gordon, (Co-director), Office Contact: (510) 257-5640 info@woeip.org		CSR, https://obamawhitehouse.archives.gov/blog/2013/06/26/west-oakland-environmental-indicators-project-citizen-engagement-measure-and-improve; https://oaklandside.org/2022/03/25/west-oakland-environmental-group-sues-to-stop-proposed-port-gravel-facility/; https://abc7news.com/west-oakland-air-pollution-black-and-latino-residents-abc-equity-report-bay-area-quality/11058102/;