

Action #	Section	Revised Description (2019-4-18)	Ready to go, Policy Change, or Study/Pilot	Directly Reduces Emissions Exposure or Both	Specifically Addresses Zone 1-7 PM2.5 or DPM Emissions	We will see Progress by 2025	Funding Available Now	Technically Feasible Now	Authority
39	Other Mobile Sources	The City of Oakland collaborates with MTC and ACTC to consider a program for extending car sharing to low-income individuals and groups in West Oakland.	Policy Changes			x		x	City of Oakland, others
36	Trucks	The Port of Oakland studies the effects on truck flow and congestion due to increasing visits from larger container ships, the feasibility of an off-terminal container yard that utilizes zero emission trucks to move containers to and from the marine terminals, and the potential efficiency gains from increasing the number of trucks hauling loaded containers on each leg of a roundtrip to the Port.	Policy Changes			x		x	Port of Oakland
8	Land Use	The City of Oakland amends existing City Ordinances and Administrative policies to list freight and trucking related businesses as prohibited uses within West Oakland.	Policy Changes	x	x	x		x	City of Oakland
9	Land Use	The City of Oakland develops a plan to limit the hours that trucks can operate in the community.	Policy Changes	x	x	x		x	City of Oakland
68	Stationary Sources	The Air District advocates for a plan that East Bay Clean Energy and PG&E are spearheading to replace the Dynergy Power Plant with a cleaner and more reliable source of energy by 2022 . The proposed location for this initiative is the Oakland C, Oakland L, Maritime Port of Oakland, and Schnitzer Steel substation pocket, which is located within PG&E's Oakland distribution planning area. Eligible resource types include: (1) in-front-of-the-meter renewable generation; (2) in-front-of-the-meter energy storage, and (3) behind-the-meter energy storage. EBCE is seeking to procure the energy, resource adequacy (RA), and renewable energy credits (RECs) associated with these local resources, while PG&E will focus on meeting Oakland's transmission reliability needs.	Policy Changes			x		x	East Bay Clean Energy, PG&E
70	Health Programs	The City of Oakland works with local and agency partners to implement regional and local adoption of the State Department of Public Health's <i>Health In All Policies</i> program.	Policy Changes	x		x		x	City of Oakland
71	Health Programs	Consistent with the Oakland Healthy Development Guidelines, the City of Oakland implements a project-wide smoking ban in Oakland at new developments.	Policy Changes	x		x		x	City of Oakland
72	Health Programs	Consistent with the State's Building Energy Efficiency Standards for air filtration in effect as of January 1, 2019, the City of Oakland requires newly constructed buildings of 4 or more units to include air filtration systems equal to or greater than MERV 13 (ASHRAE Standard 52.2), or a particle size efficiency rating equal to or greater than 50 percent in the 0.30-1.0 µm range and equal to or greater than 85 percent in the 1.0-3.0 µm range (AHRI Standard 680).	Policy Changes	x	x	x		x	City of Oakland
73	Health Programs	The City of Oakland works with agency and community partners to undertake participatory budgeting with West Oakland community members to allocate local health improvement grants that reduce emissions or exposure to emissions.	Policy Changes			x		x	City of Oakland
75	Health Programs	The City of Oakland works with local businesses, partner agencies, and community members to develop a Green Business Strategic Plan to attract, retain, and support innovative green companies in West Oakland. This effort includes coordination with State and local agencies to develop a criteria for green business certification for new and existing businesses.	Policy Changes			x		x	City of Oakland
76	Health Programs	The California Air Resources Board sets a limit on West Oakland's cumulative exposure to TACs.	Policy Changes	x		x	x	x	CARB

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77	Health Programs	The City of Oakland works with community partners to align West Oakland zoning with the Healthy Development Guidelines and apply the Guidelines to new building projects.	Policy Changes	X		x		X	City of Oakland
10	Land Use	The City of Oakland creates a comprehensive area-wide urban canopy forest plan that identifies locations that trees can be added and maintained, such as parks and along Caltrans' rights-of-way, and develops a plan to protect existing trees that reduce exposure to air pollution emissions in West Oakland. This includes partnering with local nonprofit groups and encouraging trees on private property.	Policy Changes			X		X	City of Oakland
11	Land Use	The City of Oakland works with local groups to train residents to maintain biofilters.	Policy Changes	X		x		X	City of Oakland
13	Land Use	The City of Oakland adopts development impact fees that generate funds for various environmental mitigations, including green infrastructure.	Policy Changes			X		X	City of Oakland
15	Land Use	The City of Oakland reserves land for electrical charging stations for buses, trucks, and automobiles.	Policy Changes					X	City of Oakland
16	Land Use	The City of Oakland requires solid barriers be incorporated into site design, similar to a sound wall, between buildings and sources of air pollution (for example, a freeway).	Policy Changes	X	X	X		X	City of Oakland
54	Other Mobile Sources	The California Air Resources Board amends the Harbor Craft Air Toxics Control Measure to achieve additional control of harbor craft emissions and require early compliance by Harbor Craft operating near West Oakland.	Policy Changes	X	x	x	X	X	CARB
22	Land Use	The City of Oakland adopts more stringent CEQA air quality construction and operations thresholds and mitigation requirements for West Oakland.	Policy Changes	X		X		X	City of Oakland
23	Land Use	The City and Port of Oakland provides West Oakland community members public notice and at least 30 days of comment period on any relevant planning or land-use decisions not currently subject to such notice.	Policy Changes			X		X	City of Oakland, Port of Oakland
48	Other Mobile Sources	The Bay Area Rapid Transit District to develop a bike station with controlled access at the West Oakland BART Station.	Policy Changes	X		x		X	City of Oakland
51	Other Mobile Sources	The Oakland Unified School District and the City of Oakland, as part of the Safe Routes to Schools Program in West Oakland, begin twice a day street closures next to public schools in West Oakland to keep cars and trucks away from arriving and departing students.	Policy Changes	X	x	x		X	Oakland Unified School District, City of Oakland
52	Other Mobile Sources	The City of Oakland increases the frequency of street sweeping in West Oakland to decrease road dust, beginning with streets adjacent to schools and designated truck routes. The California Department of Transportation increases the frequency of street sweeping along the I-880, I-980 and I-580 freeways. Consideration is given to technology and techniques that avoid re-suspending road dust.	Policy Changes	X	x	x		X	City of Oakland
57	Other Mobile Sources	The Port of Oakland implements a Clean Locomotive Program to increase the increase the number of US EPA Tier 4 compliant locomotives used by the UP, BNSF and OGRE railways to provide service in and out of the Port of Oakland;	Policy Changes	X	x	x		X	Port of Oakland

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1	Land Use	The City of Oakland continues working with California Waste Solutions and CASS, Inc. to relocate operations to the former Oakland Army Base and works with the property owners and local residents to redevelop the former sites in West Oakland with new business and light industrial uses that fit into a green economy.	Policy Changes	X	X	X		X	City of Oakland
5	Land Use	The City of Oakland amends existing City Ordinances and Administrative policies to accelerate relocation of auto- and truck-related businesses out of West Oakland that do not conform with the zoning designations adopted in the West Oakland Specific Plan.	Policy Changes	X	X	X		X	City of Oakland
6	Land Use	The City of Oakland uses incentives and subsidies to relocate auto- and truck-related businesses away from West Oakland that do not conform with the zoning designations adopted in the West Oakland Specific Plan. The Air District will provide emissions data and technical support to assist the City in these efforts.	Policy Changes	X	X			X	City of Oakland
7	Land Use	The City of Oakland revises business licensing procedures to require current and proposed businesses to disclose truck visits per day and works with Caltrans to determine the number of trucks that park in the Caltrans right-of-way near West Oakland. These efforts would help to better understand emissions and exposure in West Oakland.	Policy Changes			X		X	City of Oakland
31	Trucks	The City of Oakland, consistent with the West Oakland Truck Management Plan: 1) improves training for police officers and community resource officers who issue truck and trailer parking tickets; 2) changes the parking regulations so they are easier to enforce; 3) increases truck parking fines; 4) targets enforcement at specific times and locations; 5) offers incentives to truck drivers and businesses to park at the waterfront; and 6) improves signage directing drivers to available truck parking.	Policy Changes	X		x		X	City of Oakland
35	Trucks	The City and Port of Oakland award long-term leases to vendors that will deliver trucker services (including mini-market and convenience stores, fast food and fast casual restaurants) and parking to keep trucks off West Oakland streets.	Policy Changes		x	x		X	City of Oakland, Port of Oakland
78	Health Programs	Expansion of the Alameda County Public Health Asthma Management programs.	Policy Changes	X		X		X	Alameda County Public Health Department
79	Health Programs	The City of Oakland works with Alameda County Public Health to improve access to medical services within West Oakland. This work expands existing programs such as the 1) Child Health and Disability Prevention Program free health check-ups for infants through teens; 2) Asthma Management at schools; 3) Building Blocks for Health Equity which works to correct inequity in health outcomes for children; 4) Urban Male Health Initiative which is charged with reducing the premature mortality of men and boys in Alameda County; and 5) the Alameda County Health Improvement Plan to develop and implement a five-year county plan to improve health and achieve health equity.	Policy Changes	X		X		X	City of Oakland
38	Other Mobile Sources	The City of Oakland collaborates with AC Transit, BART, Emery-Go-Round and the local community to implement the broad array of transit improvements identified in the West Oakland Specific Plan.	Policy Changes	X		x		X	Multiple
40	Other Mobile Sources	AC Transit implements the Grand Avenue transit improvements identified in its Bus Rapid Transit Plan, as well as mitigations if the improvements cause increases in truck and auto idling on Grand Street.	Policy Changes	X	x	x		X	AC Transit
17	Land Use	The City of Oakland adopts an ordinance that requires on-site renewable energy generation of at least 5% of a project's energy use.	Policy Changes			X		X	City of Oakland

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18	Land Use	The Air District advocates for more electrical infrastructure and power storage, development of (1) fast-charging facility, (1) truck charging stations and better land use support for electric trucks by 2025 .	Policy Changes			X		X	PG&E
19	Land Use	The Port of Oakland adopts an Electrical Infrastructure Plan for the maritime waterfront areas of Oakland. This Plan seeks to remove barriers to adoption of zero-emission trucks, such as cost, land, and ownership of charging equipment.	Policy Changes			X		X	Port of Oakland
37	Trucks	The Alameda County Transportation Commission works with West Oakland residents and businesses to develop mitigations to short- and long-term impacts caused by the construction of the 7th St Grade Separation East Project and the implementation of other elements of the GoPort Initiative.	Policy Changes			X		X	ACTC
53	Other Mobile Sources	The California Air Resources Board modifies the At-Berth Air Toxics Control Measure such that beginning in 2021 100% of all container vessels control emissions while at berth at the Port of Oakland.	Policy Changes	X	x	x	X	X	CARB
55	Other Mobile Sources	The California Air Resources Board adopts regulations to reduce idling emissions from all rail yard sources, with an emphasis on reducing emissions from locomotives not pre-empted under the federal Clean Air Act, and early compliance for equipment and locomotives operating in West Oakland.	Policy Changes	X	X	X	X	X	CARB
56	Other Mobile Sources	The Port of Oakland implements a Clean Ship Program to increase the frequency of visits by ships with International Maritime Organization Tier 2 and Tier 3 engines.	Policy Changes	X	x	x		X	Port of Oakland
33	Trucks	The City of Oakland, consistent with the West Oakland Truck Management Plan, implements, in consultation with West Oakland residents, traffic calming measures to keep truck traffic of residential streets.	Policy Changes	X	X	X		X	City of Oakland
28	Trucks	The California Air Resources Board adopts regulatory amendments requiring trucks and buses with "Clean Idle" stickers to idle no more than 5 minutes when in West Oakland.	Policy Changes	X	X	X	X	X	CARB
29	Trucks	The City of Oakland requires all loading docks in warehouse facilities located within West Oakland and adjacent waterfront area provide electrical connections for electric trucks and transportation refrigeration units. As part of the consideration of this measure, the City of Oakland conducts a study to identify small truck yards and other locations where transportation refrigeration units operate extensively.	Policy Changes	X	X	X		X	City of Oakland
32	Trucks	The City of Oakland, consistent with the West Oakland Truck Management Plan: 1) improves signage regarding existing truck routes; 2) studies the location and movement of smaller truck fleets operating in West Oakland; and 3) adds to or changes truck routes, time of day restrictions and prohibited streets.	Policy Changes	X	x	x		X	City of Oakland
26	Trucks	The California Air Resources Board develops improvements to the existing truck and bus inspection and maintenance programs. Potential improvements include increasing the warranty requirements, adding a lower in-use emissions performance level, increasing inspections in West Oakland, using aggregated GPS and other telecommunication records to identify locations of idling trucks and buses, and developing with the Air District a system using on-board diagnostic and remote sensing devices to identify and fix faulty emissions abatement devices on trucks and buses.	Policy Changes	X		x		X	CARB

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20	Land Use	The City of Oakland revises development requirements to require the implementation of as many transportation demand management (TDM) strategies as feasible by developers of new buildings.	Policy Changes	X		x		X	City of Oakland
49	Other Mobile Sources	The City of Oakland implements the broad array of bicycle and pedestrian improvements identified in the West Oakland Specific Plan.	Policy Changes	X		x		X	City of Oakland
30	Trucks	The Port of Oakland, as part of the 2020 and Beyond Seaport Air Quality Plan, supports the transition to zero-emission drayage truck operations, including setting interim year targets out to 2035, coordinating an extensive zero-emission truck commercialization effort, working with the City of Oakland to amend local ordinances to increase the allowable weight limits for single-axle, zero-emission trucks on local streets	Policy Changes	X	X	X		X	Port of Oakland
27	Trucks	The California Air Resources Board adopts regulatory amendments to increase the number of zero emission trucks and buses operating in West Oakland.	Policy Changes	X		x	X	X	CARB
60	Stationary Sources	The Air District will seek authority in 2021 to reduce emissions and risk from magnet sources, such as the Port of Oakland, freight operations and warehouse distribution centers.	Ready to go		x	x		X	Air District
61	Stationary Sources	The Air District develops amendments to existing regulations to further reduce emissions from metal recycling and foundry operations, such as changes to 1) Regulation 6, Rule 4: Metal Recycling and Shredding Operations, which requires metal recycling and shredding facilities to minimize fugitive PM emissions through the development and implementation of facility Emission Minimization Plans; and 2) Regulation 12, Rule 13: Foundry and Forging Operations, which requires metal foundries and forges to minimize fugitive emissions of PM and odorous substances through the development and implementation of facility Emission Minimization Plans by 2025 .	Ready to go	X	x	x		X	Air District
62	Stationary Sources	Regulation 11, Rule 18: Reduce Risk from TACS at Existing Facilities (Reg. 11-18) requires selected Bay Area facilities to reduce risk or install best available retrofit control technology for toxics on all significant sources of toxic emissions. Based on the results of the Technical Assessment, the Air District may require Schnitzer Steel to adopt a Risk Reduction Plan to meet these requirements during Phase 1 of Reg. 11-18 implementation, and may require East Bay Municipal Utility District Wastewater Treatment Plant to adopt a Risk Reduction Plan to meet these requirements during Phase 2 of Reg 11-18 implementation.	Ready to go	X	x	x		X	Air District
63	Stationary Sources	The Air District provides incentives to replace existing diesel stationary and standby engines (fire pumps, dryers, conveyor belts, cranes) with Tier 4 diesel or cleaner engines. Priority is given to upgrading Tier 0, 1 & 2 engines located closest to schools, senior citizen centers, child care facilities, and hospitals.	Ready to go	X	X	X		X	Air District
64	Stationary Sources	The Air District develops new regulations to reduce emission sources from autobody and other coating operations, including the use of vanishing oils and rust inhibitors by 2025 .	Ready to go	X		x		X	Air District
65	Stationary Sources	The Air District works with California Air Resources Board and other agency and community partners to identify incentives to improve the shortcut nitrogen removal processes at waste water treatment plants to reduce emissions by 2025 . Shortcut nitrogen removal processes provide significant potential benefits in terms of energy, carbon, and chemical savings compared to conventional biological nitrogen removal.	Ready to go			X	X	X	Air District
66	Stationary Sources	The Air District develops new regulations to reduce emissions from waste water treatment plants and anaerobic digestion facilities, such as a regulation to reduce emissions of methane, reactive organic gases and oxides of nitrogen by 2019 .	Ready to go	X	x	x		X	Air District

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67	Stationary Sources	The Air District develops a regulation to reduce emissions of reactive organic gases and other toxic compounds from organic liquid storage tanks by 2020 .	Ready to go	X		x		X	Air District
41	Other Mobile Sources	The Air District offers up to \$7 million per year to replace older autos through the Vehicle Buy Back program, and up to \$4 million per year through the Cleaner Cars for Everyone programs to replace older autos and provide an incentive for a hybrid electric, plug-in hybrid electric, battery electric vehicle, or to get a Clipper Card for public transit.	Ready to go	X		x	X	X	Air District
43	Other Mobile Sources	The Air District offers financial incentives to upgrade tugs and barges operating at the Port of Oakland with cleaner engines every year .	Ready to go	X		x		X	Air District
44	Other Mobile Sources	The Air District offers financial incentives to upgrade line-haul, passenger, and switcher (yard) locomotives with cleaner engines every year .	Ready to go	X	X	x	x	X	Air District
45	Other Mobile Sources	The Air District offers financial incentives to support the development of a hydrogen refueling station and the purchase of trucks and off-road equipment powered by fuel cells every year .	Ready to go	X		x		X	Air District
69	Health Programs	The Air District develops and funds a program to reduce exposure to air pollution at schools, day care facilities, hospitals, apartments and homes in West Oakland by 2021 . This strategy includes policies or grants for building energy efficiency upgrades to reduce infiltration of pollutants and the installation of high-efficiency air filtration systems (rated MERV 13 or higher).	Ready to go	X	X	X	X	X	Air District
74	Health Programs	The Air District researches actions that are potentially exposure-reducing, such as 1) An engineering evaluation of exhaust stacks and/or vents to determine if relocation will reduce local exposure; 2) A study to determine if smart air filtration systems can reduce exposure by in-taking air during daily non-peak vehicle travel times, such as between midnight and four a.m.; 3) A study of the potential air quality benefits of a centralized package delivery site such as personal lockers by 2025 .	Ready to go			x		X	Air District
12	Land Use	The Air District and the Environmental Indicators Project implements the biofilter plan currently under development between Interstate 880 and the Prescott neighborhood in West Oakland by 2020 .	Ready to go	X	X	X	X	X	Air District
21	Land Use	The Air District works with the City and Port of Oakland and other agency and local partners to create a Sustainable Freight Advisory Committee to provide recommendations to each agency's governing board or council. The Committee's scope includes: air quality issues, enhanced/increased enforcement of truck parking and idling, improved referral and follow-up to nuisance and odor complaints related to goods movement, improvements to the Port appointment system, charging infrastructure and rates, developing land-use restrictions in industrial areas, and consideration of video surveillance to enforce truck parking, route, and idling restrictions.	Ready to go			X	X	X	Air District
24	Land Use	The Air District works with agency and local partners to improve referral and follow-up on nuisance and odor complaints by 2021 . This work includes updates to complaint processes, enforcement procedures and coordination with other public agencies regarding odors and open burning complaints.	Ready to go			X	X	X	Air District
2	Land Use	The Air District will continue to engage in environmental review processes for development projects in West Oakland, such as the Oakland A's Ballpark and the Macarthur Maze Vertical Clearance Project, including coordinating with community partners and lead agency staff, providing data and technical assistance, and reviewing and commenting on CEQA documents through 2025 .	Ready to go	X		X	X	X	Air District

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14	Land Use	The Air District provides subsidized loans for local businesses to install energy storage systems (e.g. batteries, fuel cells) to replace stationary sources of pollution (e.g. back-up generators).	Ready to go	x		X	X	X	Air District
59	Other Mobile Sources	The Air District works with Schnitzer Steel to study the feasibility of installing a shore-power or "bonnet" system to capture and abate vessel emissions at the West Oakland facility by 2021 .	Ready to go		x	X	X	X	Air District
50	Other Mobile Sources	Through the Trip Reduction Pilot Program, the Air District offers incentives for the purchase of electric bicycles for bike share programs.	Ready to go	X		x		X	Air District
34	Trucks	The Air District works with CARB to streamline the process for providing financial incentives for fueling infrastructure, and for low and zero-emission equipment. The Air District increases outreach and assistance to individual owner-operators and small companies by providing 2 workshops in West Oakland by 2022 .	Ready to go			x	X	X	Air District
47	Other Mobile Sources	The Air District will award up to 1 million in funding as a incentives to pay for the cost of purchasing cleaner equipment in West Oakland including: electric lawn and garden equipment, battery electric Transportation Refrigeration Units, cargo-handing equipment by 2021.	Ready to go	X		x	x	X	Air District
42	Other Mobile Sources	The Air District offers financial incentives to replace box and yard diesel trucks with zero emission trucks owned by West Oakland businesses every year .	Ready to go	X		x	x	x	Air District
25	Land Use	To address potential changes in local pollution exposure, the City of Oakland works with local community groups to address gentrification and the pricing out of long-term residents caused by gentrification. This effort includes meetings with local community groups and incentives and loans targeted to existing businesses and residents. Funding for this effort is identified as needed.	Studies/Pilot			x		X	City of Oakland
58	Other Mobile Sources	The Port of Oakland studies the feasibility of using electric switcher locomotives at the two Port railyards.	Studies/Pilot			X		X	Port of Oakland
3	Land Use	The Air District will study the potential air pollution and health outcomes of allowing truck traffic on I-580 and designating a truck lane on I-880 by 2025 .	Studies/Pilot		x	X	X	X	Air District
4	Land Use	Consistent with measures in the West Oakland Specific Plan, the City of Oakland identifies locations outside of West Oakland for heavier industrial businesses currently in West Oakland that contribute to air pollution emissions and negative health outcomes in West Oakland.	Studies/Pilot		x	X		X	City of Oakland
80	Health Programs	The Alameda County Health Department works with agency and local partners to investigate the use of green building approaches in housing construction and renovation that will reduce emissions and exposure to air pollution emissions. This work examines weatherization/energy efficiency (EE) and renewable energy services. This work draws from the Contra Costa County Health Department's pilot effort in cooperation with the Regional Asthma Management Program.	Studies/Pilot		x	X		X	Alameda County Public Health Department
46	Other Mobile Sources	The Air District offers financial incentives to replace long-haul diesel trucks with zero emission trucks owned by West Oakland businesses every year.	Studies/Pilot	X		x			Air District