

Arvin/Lamont CERP Measure Guide

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Channel 1: Incentives- Heavy-Duty Trucks & Equipment

1.a: Heavy-Duty Truck Replacement

Overview: The goal of this strategy is to reduce emissions from heavy-duty diesel trucks operating in the Arvin/Lamont community. This strategy would provide enhanced outreach and access to incentive funding for zero and near-zero emissions, clean truck technologies that are domiciled and operating within the community. District Board-approved methodology and funding levels can be utilized and the District will encourage small business owners to participate in the program while also promoting the selection of all-electric, zero emission technology. This measure would replace 30 older, heavy-duty diesel trucks operating in Arvin/Lamont with zero or near-zero emission technology at an expected average cost of \$200,000 per truck. Where feasible and available for the truck type and duty-cycle, the District will prioritize funding for replacement with zero-emissions electric vehicle technologies. By reducing or eliminating emissions from heavy-duty diesel trucks, significant PM_{2.5}, diesel particulate matter, and NO_x emissions reductions can be achieved.

Implementing Agency: Valley Air District

Type of Measure: Incentives

Budgeted Amount: \$6,000,000

Quantifiable emission reductions: Estimated emissions reductions associated with this measure includes up to 2.4 tons of PM (including toxic diesel particulate matter), 114.9 tons of NO_x, and 8.4 tons of VOCs.

1.b: School Bus Replacement

To provide increased outreach and access to incentive funding for the replacement of older, high polluting school buses with new zero-emission school buses servicing the Arvin/Lamont community.

Replacing older school buses is important to reduce children's exposure to diesel emissions including NOx and PM2.5 as these pollutants negatively impact human health, especially for sensitive populations such as children. New, zero-emission battery electric and near-zero emission natural gas powered school buses are significantly cleaner than older diesel buses.

Emissions from school buses are regulated by the California Air Resources Board Statewide Truck and Bus Regulation that requires transition to cleaner technology over time. Generally phased in by model year.

<https://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm>

This measure would cover up to 100% of the cost of replacing up to 4 diesel school buses with electric buses at \$400,000 each.

Implementing Agency: Valley Air District

Type of Measure: Incentives

Implementation: 2022-2026

Budgeted Amount: \$1,600,000

Quantifiable emission reductions: Estimated lifetime emissions reductions associated with this measure includes up to 0.1 tons of PM, 7.2 tons of NOx, and 1.4 tons of VOCs.

1.c: Ag Equipment Replacement

Overview: This measure will provide increased outreach and access to incentive funding for the replacement of older, high polluting agricultural equipment (e.g. tractors) operating within and surrounding Arvin/Lamont with new, cleaner equipment through the District's existing Heavy-Duty Engine Incentive Program. Replacing older diesel agricultural equipment (tractors) is important to reduce the public's exposure to diesel emissions including NOx and PM2.5 as these pollutants negatively impact human health, especially for sensitive populations such as children. New agricultural equipment, outfitted with the cleanest available technology reduces emissions from NOx and PM2.5 by more than 90% over the existing technology.

The goal of this action is to replace up to 45 pieces of agricultural equipment operating in and around the community with new, cleanest available technology, utilizing existing Board approved program criteria, according to the Carl Moyer Program guidelines and subject to additional requirements contained within the approved AB 617 Community Air Protection Guidelines. The proposed funding would cover up to 80% of the cost of replacing up to 45 pieces of agricultural equipment at an average incentive of \$90,000 each.

Implementing Agency: Valley Air District

Type of Measure: Incentives

Implementation: 2022-2026

Budgeted Amount: \$4,050,000

Quantifiable emission reductions: Estimated emissions reductions associated with this measure include 11.7 tons of PM2.5 consisting of diesel particulate matter and 167.9 tons of NOx.

1.d: Alternatives to Ag Burning

Overview: The goal of this strategy is to limit the potential for localized PM2.5 impacts associated with open agricultural burning by providing enhanced access to funding for the District's Alternatives to Agricultural Open Burning Incentive Program for growers within Arvin/Lamont community.

This strategy is consistent with Community Steering Committee recommendations to implement strategies focusing on reducing emissions from agricultural open burning. This strategy would provide enhanced access to \$1,400,000 in dedicated funding, utilizing existing Board-approved criteria. This measure would cover up to \$1,400 per acre for up to 1,000 acres of alternative practices and help achieve the ongoing emissions reductions associated with the phase-out of agricultural open burning.

Implementing Agency: Valley Air District

Type of Measure: Incentives

Implementation: 2022-2026

Budgeted Amount: \$1,400,000

Quantifiable emission reductions: Estimated lifetime emissions reductions associated with this measure includes up 110 tons of PM, 58 tons of NOx, and 900 tons of VOCs.

Channel 2: Incentives- Residential Benefits

2.a: Residential Lawn/Garden Equipment

Overview: The goal of this strategy is to reduce NOx and PM2.5 emissions from residential lawn and garden equipment by replacing existing gas powered units with battery powered zero emission models. The District's existing Residential Clean Green Yard Machines program focuses on this goal by offering incentive funding ranging from \$100-250 for the replacement of existing gas powered units with battery powered zero emission models. Additionally, the District offers up to \$50 for the purchase of a new eligible electric lawn care equipment without requiring an old piece of equipment to be turned in. Using existing District Board-approved criteria, this strategy will provide enhanced outreach and education as well as higher incentive funds to local Arvin/Lamont residents to encourage participation and maximize local emission reductions within the community. This strategy will increase outreach and access to incentive funding while providing rebates up to 100% of the equipment cost of a new electric lawn mower when replacing an existing gas powered model. The goal is to replace 350 gas powered units at an expected cost of \$500 per unit.

Implementing Agency: Valley Air District

Strategy Type: Incentives and Outreach

Budgeted Amount: \$175,000

Quantifiable Emission Reductions: Estimated emissions reductions associated with this measure includes up to 0.1 tons of PM2.5, 0.1 tons of NOx, and 2 tons of VOC.

2.b: Commercial Lawn/Garden Equipment

Overview: The goal of this strategy is to reduce NOx and PM2.5 emissions from commercial landscaping operations, in the Arvin/Lamont AB 617 community, by replacing existing gas powered equipment with battery powered zero emission models. Emissions from commercial lawn care equipment directly affect equipment operators and community residents. The District currently offers a commercial lawn and garden equipment replacement program, which offers incentive funding ranging from \$200-\$15,000 for the replacement of gas powered lawn equipment with battery operated zero emission technology. In addition, the program provides incentive funds for up to two batteries and one charger to ensure that the equipment is capable of operating for a full day of work.

The District will focus on increased participation from small, locally owned businesses and schools in the Arvin/Lamont community to generate immediate emission reductions, which directly affect local residents on a frequent basis. This strategy will provide enhanced outreach and access to available incentive funds offered by the District, utilizing Board-approved criteria. The goal of this measure is to replace 6 pieces of commercial grade gas powered lawn and garden equipment at an expected cost of up to \$25,000 per unit.

Emission reductions associated with this measure will be calculated with CARB-approved methodology.

Implementing Agency: Valley Air District

Strategy Type: Incentive and Outreach

Budgeted Amount: \$150,000

Quantifiable Emissions Reductions: Estimated emissions reductions associated with this measure will be calculated based on a methodology currently being developed by CARB.

2.c: Incentives for Vehicle Repair

Overview: The goal of this strategy is to reduce emissions of high emitting passenger vehicles that may be in need of repair by providing funding for up to five (5) “Drive Clean in the San Joaquin” Repair Program events within the Arvin/Lamont AB 617 community. Under this program, financial incentives up to \$800 will be available for emissions related testing and repairs for eligible high emitting vehicles. Through the program, weekend testing events (if local pandemic/health protocols allow), will be held to determine if vehicles are in need of emissions related repairs. Approved participants are provided vouchers which can be utilized for the necessary smog tests, diagnostic work and emissions related repairs at participating STAR certified smog shops. Reducing emissions from passenger vehicles is important due to their contribution to the formation of ozone in the Valley.

Implementing Agency: Valley Air District

Type of Measure: Incentives

Budgeted Amount: \$360,000

Quantifiable Emission Reductions: Estimated emissions reductions associated with this measure includes up to 4.1 tons of NOx.

2.d: Incentives for Vehicle Replacement with Electric/Plug-in Hybrid

Overview: The goal of this strategy is to reduce emissions associated with passenger vehicles by replacing 200 vehicles with newer, more fuel-efficient models, and providing additional incentives for Level 2 residential chargers in the Arvin/Lamont community. Emission reductions from passenger vehicles provide benefits to area residents as well as assist in reducing ozone formation in the Valley. Enhanced outreach would be conducted in the Arvin/Lamont community to ensure that residents are fully aware of available incentive options and community residents would be provided priority access through the program in order to complete projects as quickly as possible. Through the District's existing Board approved "Drive Clean in the San Joaquin" replacement program, incentives are currently offered for low to moderate income residents of disadvantaged communities to replace their older, high polluting vehicle with a newer, cleaner model. The program currently offers up to \$9,500 towards the purchase on an eligible replacement vehicle, with an additional \$2,000 provided to participating residents who purchase or lease a plug-in hybrid electric or a battery-electric vehicle and want to install a Level 2 charger in their home. This program would provide enhanced incentives, up to \$16,000 in total per vehicle, for up to 200 vehicles.

Implementing Agency: Valley Air District

Type of Measure: Incentives and Outreach

Budgeted Amount: \$3,200,000

Quantifiable Emission Reductions: Estimated emissions reductions associated with this measure includes up to 1.9 tons of NOx and 0.1 tons of PM2.5.

2.e: Car Sharing Program

Overview: The goal of this strategy is to reduce emissions from passenger vehicles by launching an electric car-sharing program in the Arvin/Lamont community. These types of programs offer access to electric vehicles for a defined period at a minimal cost to the user. In addition, these programs may allow a resident to eliminate the use of a gas-powered vehicle providing a benefit to community residents by reducing NOx and VOC emissions that would otherwise occur.

This strategy provides funding for a partnering car share provider to launch a program in the Arvin/Lamont community. The District would leverage experience with existing ride share programs operating in the Valley in order to expand to the Arvin/Lamont area. This measure would provide \$250,000 in funding. Projects will include electric vehicles, related infrastructure and subsidies to help minimize the initial cost to the end user. The emission reductions associated with this measure would be calculated in coordination with the project partners once the CSC selects a specific project location.

Implementing Agency: Valley Air District, Local Government Agencies

Type of Measure: Incentives

Budgeted Amount: \$250,000

Quantifiable Emission Reductions: Reduce emissions through transitioning to zero-emissions technology.

Channel 3: Incentives- Community Services

3.a: Urban Greening

Overview: The purpose of this strategy is to identify and support efforts to increase urban greening to improve air quality for residents in the Arvin and Lamont communities. This measure is supported by scientific studies that have shown urban trees can help with the removal of air pollutants and reduced emissions of volatile organic compounds (VOC's). The effects of urban trees on fine particulate matter (PM2.5) was modeled for ten U.S. cities, with total annual PM2.5 removal varying from 5.2 tons in Syracuse to 71.1 tons in Atlanta. Overall air quality improvements attributed to urban trees ranged between 0.05% in San Francisco to 0.24% in Atlanta (Nowak, Hirabayashi, Bodine, Hoehn, 2013). Based on a study to assess the effects of urban trees on air quality have found that urban vegetation can attribute to temperature reduction, removal of air pollutants, reduced emission of VOCs, and building energy conservation (United States Department of Agriculture Forest Service, 2002). The measure would also include an ongoing maintenance program with the landowner or land use agency where the trees are planted.

The District has long been supportive of the public benefits provided from planting of trees and vegetation. The District's Fast Track Action Plan, adopted by the Governing Board to reduce ozone pollution in the Valley, identified strategic use of tree and vegetation planting as a potential measure to reduce ozone. There has also been significant efforts at the federal, state, and local levels to promote and increase urban greening through funding opportunities, programs, and projects.

It should be noted that, while the District has no direct authority over how agencies allow land, under their jurisdiction, to be used. These land-use decisions on whether to allow or require urban greening in specific locations, are the responsibility, under state law, of cities and counties, school Districts, private landowners, or state & federal agencies responsible for transportation corridors, state and federal parks, and other properties. While AB 617 does not provide the District with new land-use regulatory authority, so land-use authority continues to remain with cities, counties, and state and federal land-use agencies, as discussed in CARB's Blueprint (see "Who Has the Authority to Implement Actions?", page 26 of the Blueprint), the District is committed to working with these agencies and the CSC to see this measure implemented this measure.

Implementing Agency: Valley Air District, City of Arvin, Kern County, and other local partners as identified by the CSC

Type of Measure: Partnership, Incentives

Budgeted Amount: \$500,000

Channel 3: Incentives - Community Services

Quantifiable emission reduction: Utilize CARB-established methodology available through the Urban & Community Forestry Program

3.b: Vegetative Barriers

Overview: The purpose of this strategy is to provide incentives for the installation and maintenance of vegetative barriers around sources of concern to reduce particulate matter, odor, and other emissions, as feasible. Based on community interest in vegetative barriers, the District will also look to partner with other agencies to identify additional grant funding to support the installation of vegetative barriers at/near industrial facilities, schools, and along major transportation corridors.

It should be noted that the SJVAPCD has no authority over how agencies allow land under their jurisdiction to be used. These land-use decisions, such as whether to allow or require vegetative barriers in specific locations, are historically the responsibility, under state law, of cities and counties, or, in some cases, state and federal agencies responsible for transportation corridors, state and federal parks, and other properties. AB 617 does not provide the District with new land-use regulatory authority, so land-use authority remains with cities, counties, and state and federal land-use agencies, as discussed in CARB's Blueprint (see "Who Has the Authority to Implement Actions?", page 26 of the Blueprint), the District is committed to working with these agencies and the CSC to see this measure implemented.

Implementing Agency: Valley Air District, City of Arvin, Kern County, other local partners as identified by the CSC

Type of Measure: Partnership, Incentives

Implementation: 2022-2025

Budgeted Amount: \$500,000

Quantifiable emission reduction: Estimated 5-year emissions reductions associated with this measure includes up to 0.3 tons of NO_x per year.

3.c: Funding for Road Improvements, Sidewalk Installation, and Bike Paths

Overview: The purpose of this measure is to assess current roads, sidewalks and bike path infrastructure needs; to support community identified priority projects; and to seek out additional funding opportunities to make the community more bike and walk friendly.

Reducing emissions from motor vehicles through the implementation of alternate modes of transportation, including walking and bicycling, is important to reduce the public's exposure to vehicle emissions including NOx and PM2.5. This strategy would provide incentive funding for the development and construction of road and sidewalk improvements as well as Class 1, Class 2, and Class 3 bicycle paths, lane striping, and routes. The proposed funding level of this measure would be beyond the established District guidelines from the District's REMOVE and Public Benefit Grants Programs. Additionally, the District will work with transportation agencies in the Arvin/Lamont area, and seek to assist these agencies to help identify and leverage existing funds, in addition to AB 617 funding, to maximize the number of projects that can be completed.

Implementing Agencies: Valley Air District, City of Arvin/Lamont, Kern County, and Kern Council of Governments

Type of Measure: Incentives

Budgeted Amount: \$12,000,000

Quantifiable Emission Reductions: Estimated lifetime emissions reductions associated with this measure includes up to 10.2 tons of PM, 18.6 tons of NOx, and 37.8 tons of VOC.

3.d: EV Charging Stations

Overview: The goal of this strategy is to provide electric vehicle charging infrastructure necessary to support the deployment of battery electric and plug in hybrid vehicles. The District's Charge Up program currently provides \$5,000 for a Level 2 Single Port, \$6,000 for a Level 2 Dual Port, and \$25,000 for a Level 3/DC Fast Charger. Having the appropriate charging infrastructure available for Arvin/Lamont residents will encourage the growth of zero emission passenger vehicles in the community.

This strategy would provide incentive funding for publically accessible charging infrastructure to private and public entities in the Arvin/Lamont community. This strategy would utilize the existing Charge Up program guidelines and funding amounts. The goal of this measure is to install up to 8 electric vehicle charging stations, including Level 2 and Level 3 chargers, in Arvin/Lamont at an expected cost of up to \$25,000 per station. This measure is an important part of a long-term solution. There are no direct emission reductions associated with this measure, however, this measure supports the emission reductions associated with electric vehicle deployment.

Implementing Agency: Valley Air District

Type of Measure: Incentives

Budgeted Amount: \$200,000

Quantifiable Emission Reductions: Reduce emissions indirectly through transitioning to zero-emissions technology.

3.e: Public Fleet Vehicles

Overview: To provide increased outreach and access to incentive funding for the replacement of older, higher polluting public fleet vehicles operating within the Arvin/Lamont community with new clean vehicle technology.

Replacing older public fleet vehicles is important to reduce the public's exposure to vehicle emissions including NOx and PM2.5. These pollutants negatively affect human health, especially for sensitive populations such as children. These are new clean vehicle technologies, including plug-in hybrid, battery electric and natural gas that are significantly cleaner than conventionally-powered gasoline and diesel vehicles.

State and Federal requirements control emissions from passenger vehicles. The Valley Air District does not have jurisdiction over these sources. However, due to the large amount of air pollution that originates from passenger vehicles in the Valley, including public fleet vehicles, the District has implemented a suite of programs to reduce pollution from public fleets:

- The Public Benefit Grants Program - <http://valleyair.org/grants/publicbenefit.htm>. The District operates this program. The purpose of this program is to fund the purchase of new electric, plug-in hybrid, or alternative fuel vehicles for public agencies to promote clean air alternative-fuel technologies and the use of low-or zero-emission vehicles in public fleets. This program is currently open and accepting applications on a first-come-first-served basis.
- Employer Based Trip Reduction (District Rule 9410) requires large employers to implement measures to encourage employees to take alternative transportation to work through the establishment of an Employer Trip Reduction Implementation Plan (eTRIP).
 - An eTRIP is a set of measures that encourages employees to use alternative transportation and ridesharing for their morning and evening commutes.
 - Each measure contributes to a workplace where it is easier for employees to choose to use ridesharing or alternative transportation.
 - Through this rule, single-occupancy vehicle trips are reduced, thus reducing emissions of oxides of nitrogen (NOx), volatile organic compounds (VOC) and particulate matter (PM).

The goal of this action is to work closely with public agencies, including City of Arvin and Kern County, to expedite the replacement of up to 20 vehicles through the District's Public Benefit Grants Program. This includes increased outreach to public agencies operating vehicles within the community as well as prioritized funding for projects in the community.

Channel 3: Incentives - Community Services

Implementing Agencies: Valley Air District, City of Arvin/Lamont, Kern County, and Kern Council of Governments

Type of Measure: Incentives

Budgeted Amount: \$400,000

Quantifiable Reductions: Estimated lifetime emissions reductions associated with this measure includes up to 0.2 tons of NOx.

3.f: New Street Sweeper

Overview: The goal of this strategy is to identify opportunities to reduce dust from paved and unpaved roads in the community through increased frequency of street sweeping by incentivizing the purchase of new, clean street sweepers for use within the Arvin/Lamont communities. Increased street sweeping on roads and highways can help to reduce paved road dust and associated emissions that may affect public health.

This strategy would look to allocate up to \$400,000 for the purchase of two new street sweepers to operate within the Arvin/Lamont AB 617 community.

Jurisdictional Issues: It should be noted that the District has no authority over how agencies allow land under their jurisdiction to be used. These land-use decisions, such as whether and how often to require street sweeping, are historically the responsibility, under state law, of cities and counties, or, in some cases, state and federal agencies responsible for transportation corridors, state and federal parks, and other properties. AB 617 does not provide the District with new land-use regulatory authority, so land-use authority remains with cities, counties, and state and federal land-use agencies, as discussed in CARB's Blueprint (see "Who Has the Authority to Implement Actions?", page 26 of the Blueprint). However, the District has made available to the responsible agencies the various land-use strategies that have been presented by the Committee for potential inclusion into the CERP for responsible agency's input and response in the Shafter Community Emissions Reduction Program.

The City of Arvin coordinates street sweeping within the Arvin city boundaries. Areas of the AB 617 community not within the city boundaries are maintained by Kern County.

Implementing Agency: Valley Air District, City of Arvin, and Kern County

Incentives: \$400,000

Type of Measure: Partnership, Incentives

Quantifiable Emission Reductions: Emissions reductions will be quantified using CARB-approved methodology

Channel 4: Regulations and Enforcement

4.a: Enhanced Inspection Frequency

Overview: The goal of this strategy is to limit the potential for localized air quality impacts at permitted facilities that have had emissions violations in the last three years.

The District conducts inspections and investigations of permitted sources to determine compliance with a multitude of health-protective local, state, and federal air quality regulations that target both criteria and toxic pollutants. The District closely monitors these sources and strictly enforces applicable requirements. Compliance inspections are unannounced whenever possible and involve both a physical inspection of the facility and a review of their records. When a violation of a District permit, rule, or regulation is identified, the District takes appropriate enforcement action.

The District reviewed the enforcement history over a three-year period (October 2018-October 2021) for the permitted facilities in the Arvin-Lamont community, and determined that 72 enforcement actions were issued to facilities (not including gas stations) for violations resulting in excess emissions. These violations occurred at 9 permitted facilities in the Arvin/Lamont area. The District also issued 20 enforcement actions at 12 gas stations in the Arvin-Lamont community for violations resulting in excess emissions. The District believes that more frequent inspections for 20 of these 21 facilities, when feasible, would help to limit the potential for air quality impacts associated with emissions violations.

The District will increase the frequency of inspection at these facilities within the Arvin/Lamont community that has had an emission-based violation over the past three (3) years. These facilities will be inspected at least twice per calendar year for the next five (5) years or until the facility has four (4) consecutive inspections without an emissions violation, whichever occurs first.

Implementing Agency: Valley Air District

Type of Measure: Enforcement

Quantifiable Emission Reductions: Reduction in excess PM_{2.5}, PM₁₀, NO_x, SO_x, VOC, and CO emissions through higher compliance rates

4.b: Stationary Source Rulemaking

Overview: The District will be analyzing District Rules to pursue additional emission reduction opportunities and implementing recently adopted District Rules throughout the CERP implementation period.

Recent Rule Amendments Affecting Arvin/Lamont Stationary Sources:

- Rule 4702 – Internal Combustion Engines
- Rules 4306/4320 – Boilers, Steam Generators, Process Heaters
- Rule 4905 – Flares

Rule Evaluation for Further Reduction from Arvin/Lamont Stationary Sources:

- Rule 4460 – Petroleum Refinery Fence-Line Air Monitoring
- Rule 4625 – Wastewater Separators
- Rule 4621 – Gasoline Transfer into Stationary Storage Containers, Delivery Vessels, and Bulk Plants
- Rule 4402 – Crude Oil Production Sumps
- District Rules for Leak Detection and Repair (LDAR) rules for oil and gas industrial processes:
 - Rule 4623 – Organic Liquid Storage
 - Rule 4624 – Transfer of Organic Liquids
 - Rule 4401 – Steam Enhanced Wells
 - Rule 4409 – Light Oil/Gas Plants Rule 4455 – Petroleum Refineries, Gas Processing Facilities, and Chemical Plants

Emissions reductions achieved through the implementation of more stringent limits potentially required through these rule amendments will further contribute to reduced exposure to air pollution in the community. Community Steering Committee members, members of the AB 617-selected community, and the general public are encouraged to be involved in the upcoming rulemaking process for these rules.

Implementing Agency: Valley Air District

Strategy Type: Regulatory

Quantifiable Emission Reductions: Potential reductions through the implementation of additional regulatory requirements as feasible.

4.c: Expedited AB 2588 Assessment

Overview: This strategy will expedite the review of stationary sources of pollution in the community that are currently being reassessed under the Air Toxics "Hot Spots" Information and Assessment Act (AB 2588).

Under AB 2588, all facilities located within the boundaries of the District are required to report toxic substances released into the air by their operation to the District. The District's responsibilities under the state's Air Toxics "Hot Spots" program are to:

- Identify Valley facilities that release toxic air contaminants as a result of their day to day operations,
- Collect and quantify emission data from equipment located at permitted facilities,
- Identify facilities causing localized health impacts on nearby residents,
- Determine facility-wide health risks resulting from the emission of toxic air contaminants,
- Notify nearby residents and businesses of significant risk facilities in their vicinity, and
- Require that significant risk facilities reduce their risks to a level that no longer constitutes a significant risk to nearby residences and businesses.

The District's implementation of AB 2588, California's Air Toxics "Hot Spots" Information and Assessment Act, has resulted in major reductions in emissions of air toxics from existing sources in the San Joaquin Valley. Under this right-to-know law, the District has worked with Valley facilities to quantify emissions of air toxics, determine the health risk caused by those emissions, report emissions and any significant risks through written public reports and neighborhood public meetings, and take steps to reduce such risks.

This measure will result in the expedited AB 2588 reviews for facilities located within the Arvin/Lamont Community. More information about this effort can be found later in the section, "Additional Regulatory Measures to Reduce Emissions in the Community." Please refer to Appendix E for additional details about the District's Health Risk Assessment Process, and a table identifying the AB 2588 reassessment status of each facility within the community.

Implementing Agency: Valley Air District

Strategy Type: Regulatory

Quantifiable Emission Reductions: Ongoing review of air toxics risk and mitigation under AB 2588 program.

4.d: Fugitive Dust Enforcement

Overview: The goal of this strategy is to limit the potential for localized air quality impacts associated with fugitive dust from construction/earthmoving activities and open areas subject to District Regulation VIII.

District rules limit fugitive dust emissions from construction, demolition, and earthmoving; bulk material storage; open areas; and unpaved roads and vehicle/equipment traffic areas. Furthermore, District rules restrict carryout and trackout of dirt and dust onto paved public roadways. Regulation VIII does not limit emissions from vehicles used in these projects.

Regulation VIII requires, a Construction Notification or Dust Control Plan for all construction activities in the District involving one or more acre of disturbed surface area. District staff reviews each Construction Notification and Dust Control Plan prior to the start of construction, to ensure that operators have committed to utilize required and effective work practices and mitigation measures to reduce fugitive dust emissions to within rule limitations. Additionally, District staff surveys and inspects these construction activities, responds to public complaints regarding fugitive dust, and provides training classes for those required to submit Dust Control Plans.

In reviewing the compliance history for the Arvin/Lamont community, it was determined that the District had received 13 complaints regarding fugitive dust related issues over the last 3 years, with the majority pertaining to truck traffic activities and open areas. Building on the District's existing inspection and complaint response efforts, the District will conduct at least one targeted enforcement effort within the Arvin/Lamont community during both the 2nd and 3rd quarters for the next five (5) years.

This fugitive dust reduction enforcement strategy is being included in the CERP in response concerns raised by CSC members regarding fugitive dust emissions in the community.

Implementing Agency: Valley Air District

Type of Measure: Enforcement

4.e: Heavy-Duty Idling Enforcement

Overview: The goal of this strategy is to limit the potential for localized emissions from heavy-duty vehicles for failure to comply with the state's heavy-duty anti-idling regulation. Historically, the District has partnered with CARB to conduct anti-idling enforcement throughout valley communities.

The state's anti-idling Airborne Toxic Control Measure limits nonessential (or unnecessary) vehicle idling to specific time limits. It is applicable to all diesel-fueled commercial motor vehicles with gross vehicular weight ratings of greater than 10,000 pounds. The diesel exhaust from excessive idling has the potential to impose significant adverse health and environmental impacts. Therefore, efforts to ensure compliance with the anti-idling regulation, especially near schools and residential areas, are important to reduce the potential for localized impacts within the community.

The District will partner with CARB to conduct additional targeted anti-idling enforcement efforts in the Arvin/Lamont community with established benchmarks. These benchmarks include anti-idling surveillance, to occur at least once per quarter, for the next 5 years. The District and CARB will work with the Community Steering Committee to identify heavy-duty vehicle idling "hot spots," especially those near schools, to aid in focusing the enforcement efforts.

Implementing Agency: Valley Air District and CARB

Type of Measure: Enforcement

Quantifiable Emission Reductions: Reduction in PM_{2.5}, PM₁₀, NO_x, VOC, and CO emissions through higher compliance rates with the state regulation.

Channel 5: Agency Partnerships

5.a: Pesticide Measures

Overview: All pesticide-related emission reduction strategy suggestions submitted by the CSC were shared with the California Department of Pesticide Regulation (DPR) and CARB.

DPR has committed to implement specific measures to reduce community exposure to pesticides, including:

- DPR, in collaboration with Kern County Agricultural Commissioner's Office, will work with the CSC to identify pesticide use and agricultural practices common to the community.
- DPR, in partnership with CARB and OEHHA, will assist in the identification of pesticides of concerns by the CSC and provide technical expertise to aid the CSC in prioritizing pesticide monitoring.
- DPR will support CARB in providing of technical support to the CSC on pesticide monitoring, as well as provide feedback on analytical data gathered by the CSC.
- DPR will continue to engage with the CSC and the community on ongoing statewide regulatory and pesticide notification development efforts.

Implementing Agency: Department of Pesticide Regulation and California Air Resources Board

Type of Measure: Partnership

5.b: Support Land Use Agencies

Overview: The purpose of this measure is to facilitate inter-agency collaboration between the City of Arvin, Kern County, and Kern Council of Governments to promote environmentally mindful alternative commute options through early discussion of related land use planning initiatives.

Mobile source emissions represent the vast majority of NOx emissions within the Arvin/Lamont Community. Reducing emissions from motor vehicles through the implementation of alternate modes of transportation directly contributes to decreasing public exposure to vehicle emissions, such as diesel particulate matter, which adversely affects human health.

Land use decisions are critical in contributing to the improvement in air quality within a community and should be geared towards promoting strategies aimed at reducing vehicle miles traveled by increasing community walkability. Examples of such strategies are listed below:

- Bicycle infrastructure
- Infrastructure to support alternative modes of transportation (electric vehicles, near-zero emissions vehicles)
- Satellite offices/telecommuting centers to reduce or eliminate employee commutes

Implementing Agency: Valley Air District, City of Arvin, Kern County, and Kern Council of Governments

Strategy Type: Land Use

Quantifiable Emission Reductions: Minimize emissions through reduced vehicle miles travel and promotion of cleaner fuels.

5.c: Heavy-Duty Truck Rerouting

Overview: Community Steering Committee members have suggested that a study should be performed to assess the existing heavy-duty diesel truck routes that run through the communities of Arvin and Lamont. The District will work with Caltrans, Kern COG, City of Arvin, Kern County to support ongoing efforts to study truck routes along state highways in the community. The District will work with the appropriate agencies to seek additional funding, as necessary, to support this study.

Jurisdictional Issues: It should be noted that the District has no authority over how agencies allow land under their jurisdiction to be used. These land-use decisions, such as truck rerouting, are historically the responsibility, under state law, of cities and counties, or, in some cases, state and federal agencies responsible for transportation corridors, state and federal parks, and other properties. AB 617 does not provide the District with new land-use regulatory authority, so land-use authority remains with cities, counties, and state and federal land-use agencies, as discussed in CARB's Blueprint (see ["Who Has the Authority to Implement Actions?"](#), page 26 of the Blueprint). However, the District is committed to supporting the ongoing study and coordinating conversations with the implementing agencies and the CSC as necessary.

Implementing Agency: City of Arvin, Kern County, Caltrans, Kern Council of Governments

Type of Measure: Partnership

Quantifiable Mitigation: Minimize exposure to diesel particulate matter emissions through potential truck routing alternatives.

5.d: Incentives for ebikes

Overview: The goal of this strategy is to encourage adoption for low-income individuals of electric bicycles (e-bikes) as a replacement for motor vehicle trips. The strategy would increase access to clean transportation options while reducing vehicles miles traveled by incentivizing e-bikes for the Arvin/Lamont community. Emission reductions from the utilization clean transportation provides benefits to area residents as well as assist in reducing impact from pollution in the Arvin/Lamont community.

Through the California Air Resources Board new e-bike voucher program, launching in July 2022, qualified residents would be eligible for an incentive to purchase an e-bike. The strategy will increase outreach and access to the statewide incentive funding towards the purchase on an eligible e-bike for low-income residents. The District will work with CARB and community residents to bring awareness about the e-bike program to the community.

Implementing Agency: California Air Resources Board and Valley Air District

Type of Measure: Outreach

Quantifiable Emission Reductions: Estimated emissions reductions associated with this measure will be calculated with CARB-approved methodology.

Channel 6: Outreach

6.a: Community Awareness and Knowledge of Air Quality

Overview: The goal of this strategy is to increase community awareness of available tools to keep informed of real-time changes in air quality, clean air efforts and how communities can get involved through multi-lingual educational campaigns, videos and partner workshops. The strategy looks to focus outreach on concerns raised by the community, including building awareness on the impacts of dust pollution, traffic congestion, heavy-duty truck use and pesticide use. Additionally, the District commits to working with the CSC to educate the community and increase public understanding of what conditions create poor air quality, the health impacts of a poor air quality episode, and the availability of tools to make informed decisions about when to limit their exposure.

This strategy would aim to increase air quality understanding among residents, community members and small businesses in the Arvin/Lamont area. Concurrently, the District would aim to increase the use of available air quality tools, including the Valley Air App social media campaigns. The measure would seek to establish partnerships with local small businesses and community organizations to educate them on the tools and funding resources available to them and invite the public to workshops at these locations or other sites commonly available to the public (such as libraries, schools, and community centers) and on Zoom or other digital platforms. Both the social media outreach and live workshops would promote real-time tools such as myRAAN website, the Valley Air App, the Real-time Outdoor Activity Risk (ROAR) Guidelines, the wildfire page of the District's website, as well as information about general air quality education, wildfire smoke impacts, health effects, and similar topics. This strategy aims to increase myRAAN website registrations, Valley Air App downloads, and social media followers among members of the Arvin/Lamont community.

Annual goals for these actions include:

- Attend/host 4 community meetings, in-person or online, to share information
- 1 community targeted social media campaign

Implementing Agency: Valley Air District

Type of Measure: Outreach

Quantifiable mitigation: Minimize emissions and exposure around schools.

6.b: Illegal Burning Outreach

Overview: The goal of this strategy is to reduce illegal burning of residential waste, such as trash, through outreach and education while focusing on areas of concern identified by the CSC. It is important to continue to educate residents of the harmful localized emissions created through the burning of residential garbage. Smoke from burning trash and yard waste contain toxic pollutants that are harmful to human health.

This strategy would include working with the City of Arvin, Kern County, and the local fire agencies to understand the illegal open burning issues within the AB 617 community. The District would then establish a series of public workshops to educate Arvin/Lamont residents about illegal open burning, to help the community better understand the health impacts of burning waste, and to address questions and concerns interactively and accessibly within a forum setting either in person or in an online platform such as Zoom. In-person workshops would take place in locations commonly available to the public such as libraries, schools, and community, health, or recreation centers when possible. Videos could be used as an outreach tool and be made available in languages such as Spanish, and others as requested.

Implementing Agency: Valley Air District, City of Arvin, Kern County, and local fire agencies

Type of Measure: Outreach

Quantifiable Emission Reductions: Reduction in localized PM2.5, PM10, NOx, VOC, and CO emissions through higher compliance rates.

6.c: HAL Schools Program & Emission Free Zone

Overview: The goal of this measure is to reduce children's exposure to unhealthy air by increasing the participation and engagement of schools in the Healthy Air Living (HAL) Schools program. HAL Schools staff works with community schools to decrease vehicle idling, limit children's outdoor activity during episodes of poor air quality, and educate school staff, parents and students about protecting themselves from poor air quality and making decisions to reduce their personal contribution to air pollution.

Additionally, as a part of this measure, the District commits to work with school staff and students to educate the public, educators and parents regarding having an "Emission Free Zone" around schools, thereby reducing negative health impacts on student's health caused by emissions generated from vehicle idling. To help in this effort, "No Idling" signage in English and Spanish will be distributed to schools within the boundary. Additionally, informational videos will be used as an outreach tool and will be made available in languages, such as Spanish, and others on an as needed basis.

Implementing Agency: Valley Air District

Strategy Type: Outreach

Quantifiable mitigation: Minimize emissions and exposure around school