

South Central Fresno Community Emissions Reduction Program (CERP) Development

Proposed emission reduction and exposure reduction strategies for the Committee's consideration and comment

July 24, 2019

San Joaquin Valley Air Pollution Control District

Heavy Duty Mobile Sources

Trucks, Buses, and Trains

Heavy Duty Trucks: Provide Enhanced Incentive Funding for Zero and Near-Zero Emission Technology

- Type of Strategy: Incentive
- Purpose: To provide enhanced outreach and access to incentive funding for zero and near-zero emissions clean truck technologies that operate within the community (regional, long haul)
- Goal: Replace 150 older, heavy duty diesel trucks operating in Fresno with near-zero emission heavy duty trucks
- Target: 491.5 tons NO_x, 1.35 tons PM_{2.5} (based on average emission reductions expected per project)
- Incentives to be invested: \$15,000,000

Heavy Duty Trucks: Support the Deployment of Zero Emission Yard Trucks and TRUs

- Type of Strategy: Incentive
- Purpose: Provide incentives to support the deployment of clean yard trucks, transportation refrigeration units (TRUs), and related infrastructure at warehouses and other facilities within the community with priority on zero emission technologies
- Goal: Deploy 50 new zero emission yard truck and transportation refrigeration units along with associated infrastructure
- Target: At least 0.15 tons NO_x, 9.95 tons PM_{2.5} (based on conservative emission reductions expected per project)
- Incentives to be invested: \$7,000,000

Heavy Duty Trucks: Measures to Reduce Idling of Heavy Duty Trucks Within the Community

- Type of Strategy: Incentive
- Purpose: To develop and/or work to implement measures that reduce idling of heavy duty trucks within the community
- Goal: Install 33 plugs to reduce idling of heavy duty trucks at distribution and warehouse facilities within the community
- Target: 10.33 tons NO_x, 0.17 tons PM_{2.5} (based on average emission reductions expected per project)
- Incentives to be invested: \$100,000

Heavy Duty Trucks: Implement Pilot Incentive Program to Provide Truck Emissions Repairs

- Type of Strategy: Incentive
- Purpose: To implement a pilot incentive program to provide incentives for heavy duty truck emissions-related repairs
- Goal: Utilize new pilot program to identify and repair at least 9 heavy duty trucks operating within community
- Target: Reductions in PM (quantity of emission reductions to be determined)
- Incentives to be invested: \$75,000

Heavy Duty Diesel Trucks: Enhanced Enforcement of the Statewide Anti-Idling Regulation

- Type of Strategy: Enforcement
- Purpose: To limit the potential for localized PM_{2.5} and toxic air quality impacts associated with failure to comply with the state's anti-idling regulation
- Goal: Partner with CARB and the community to identify heavy duty diesel truck idling hot spots, especially those near sensitive receptors such as schools, to target enforcement efforts of the state's regulation within the community. At least 1 targeted anti-idling enforcement sweep will be conducted each quarter for the next 5 years.

School Buses: Enhance Outreach and Access to Incentive Funding for New School Buses

- Type of Strategy: Incentive
- Purpose: To provide increased outreach and access to incentive funding for the replacement of older, high polluting school buses with new zero or near-zero-emission school buses operating within and surrounding South-Central Fresno.
- Goal: Replace up to 16 school buses, operated by Fresno Unified SD, Fowler Unified SD and/or Central Unified SD with zero-emission battery-electric school buses that operate within the community
- Target: 20.8 tons NO_x, 8.32 tons PM_{2.5} (based on average emission reductions expected per project)
- Incentives to be invested: \$6,400,000 (funding up to \$400,000 per bus)

Transit Buses: Develop Incentive Program for Transit Bus Replacement

- Type of Strategy: Incentive
- Purpose: To provide incentives for the replacement of older, high polluting transit buses with new zero or near-zero-emission transit buses operating within and surrounding South Central Fresno.
- Goal: Provide incentives to replace older, high-polluting transit buses with new, zero or near-zero-emission transit buses that operate within South Central Fresno
- Target: Reductions in PM2.5 and/or Toxic Air Contaminants (quantity of reductions to be determined)
- Incentives to be invested: To be determined

Locomotives: Enhance Outreach and Access to Incentive Funding for New Locomotives

- Type of Strategy: Incentive
- Purpose: To provide increased outreach and access to incentive funding for the replacement of older, high polluting locomotives operating within and surrounding South-Central Fresno with new clean engine technologies.
- Goal: Replace 4 Tier 0 locomotives with Tier 4 locomotives
- Target: 252 tons NO_x, 5.6 tons PM_{2.5} (based on average emission reductions expected per project)
- Incentives to be invested: \$10,400,000 (Funding up to \$2,600,000 per locomotive)

Locomotives: Provide Incentives for Electric Railcar Mover/Switchers for Rail Facilities

- Type of Strategy: Incentive
- Purpose: To provide increased outreach and access to incentive funding for the replacement of older, high polluting locomotives operating within and surrounding South-Central Fresno with new clean engine technologies.
- Goal: Replace 7 older, high-polluting switchers with new, cleaner, advanced technology/hybrid switcher locomotives at railyards and other facilities within South Central Fresno
- Target: 133 tons NO_x, 3.5 tons PM_{2.5} (based on average emission reductions expected per project)
- Incentives to be invested: \$9,400,000 (funding up to \$1,340,875 per locomotive)

Older/High Polluting Cars

Passenger Cars: Host Local Tune-In Tune-Up Events Within Community

- Type of Strategy: Incentive
- Purpose: To host local Tune In Tune Up events with the community to reduce emission from older, high polluting cars
 - Program provides incentives for emission related repairs of high emitting vehicles through weekend Tune In Tune Up events
- Goal: Funding currently available in District Budget for at least four events in community, increase community participation in the program to repair high emitting vehicles, find funding to hold additional events within community boundaries
- Target: 11.6 tons NO_x, 7.7 tons VOCs (based on average emission reductions expected per project)
- Incentives to be invested: \$1,000,000 for events and 1,250 vehicle repairs

Passenger Cars: Provide Enhanced Outreach and Access to Incentive Options

- Type of Strategy: Incentive
- Purpose: To provide enhanced outreach and access to financial incentives to replace older autos from the community through the District's Drive Clean in the San Joaquin program
- Goal: Funding currently available in District Budget, increase community participation in the program to replace 220 high emitting vehicles operating in South Central Fresno with lower-emissions or zero-emissions (electric) vehicles
- Target: 1.98 tons NO_x, 0.07 tons PM_{2.5}, and 0.46 tons VOCs (based on average emission reductions expected per project)
- Incentives to be invested: \$1,600,000 to replace 220 vehicles

Passenger Cars: Provide Incentive Funding For Electric Vehicle Infrastructure

- Type of Strategy: Incentive
- Purpose: To provide incentive funding to support the purchase of electric vehicle charging infrastructure in the community
- Goal: Increase participation in the program to deploy 42 new electric vehicle chargers within the community in order to support electric vehicle deployment
- Target: Support emission reductions associated with electric vehicle deployment
- Incentives to be invested: \$250,000 for 42 electric vehicle chargers

Passenger Cars: Increase Educational Training for Electric Vehicle Mechanics

- Type of Strategy: Incentive
- Purpose: To increase educational training for electric vehicle mechanics and to support the deployment of additional electric vehicle repair facilities in the community as feasible
- Goal: Increase participation in electric vehicle mechanics training that would provide services to vehicles operating within the community
- Target: Support emission reductions associated with electric vehicle deployment
- Incentives to be invested: \$75,000 for 5 training sessions

Passenger Cars: Evaluate Feasibility of Ride Share Programs For Community

- Type of Strategy: Outreach/Incentive
- Purpose: To educate area residents on availability of ride share program incentives, evaluate the feasibility of additional ride share programs and/or incentives for ride sharing
- Goal: Leverage existing ride share programs in the Valley for expansion into the South Central Fresno community
- Target: Reduction in PM and NO_x (quantity of reductions to be determined)
- Incentives to be invested: \$250,000 to support the launch of a ride share program in South Central Fresno

Residential Burning

Residential Wood Burning: Provide Enhanced Incentives to Replace Wood Burning Devices

- Type of Strategy: Incentive
- Purpose: To provide enhanced financial incentives to replace existing wood burning devices and pellet stoves with natural gas or electric technologies
- Goal: Increase outreach and access to incentive funding resulting in increased participation in the program to replace 500 wood burning devices in the community with cleaner alternatives
- Target: 246 tons of PM_{2.5} (based on average emission reductions expected per project)
- Incentives to be invested: \$1,500,000

Residential Wood Burning: Educate Public About Harmful Impacts

- Type of Strategy: Outreach & Education
- Purpose: To educate community residents about the impacts of wood burning and resources available to help transition to natural gas and electric devices
 - Includes information on Check Before You Burn program/Rule 4901
- Goal:
 - Increase in Burn Cleaner applications in South Central Fresno
 - Host 5 public workshops at libraries/community centers
 - Circulation of infographics in 15 community spaces

Wood Burning Fireplaces/Heaters: Enhanced Enforcement of Wood Burning Curtailments

- Type of Strategy: Enforcement
- Purpose: To limit the potential for localized PM_{2.5} impacts associated with the failure to comply with mandatory episodic wood burning curtailments under District Rule 4901
- Goal: District staff will conduct at least four hours of surveillance within the South Central Fresno community on each declared curtailment day for the next 5 winter seasons to enforce the requirements of Rule 4901

Residential Open Burning: Reduce Illegal Activity

- Type of Strategy: Outreach
- Purpose: To reduce illegal burning of residential waste through outreach and education
- Goal:
 - Host 5 workshops at libraries, community centers, health centers, and schools on the health effects/air quality impacts of burning trash
 - Invest in geo-targeted outdoor ads in areas with frequent violations
 - 4 billboards
 - 3 street furniture (bus shelters, kiosks, phone booths, etc.)
 - 2 buses routed through relevant areas (zero-emissions preferred)
 - 2 postcard mailers to county residents in rural areas

Residential Open Burning: Enhanced Enforcement to Reduce Illegal Burning of Residential Waste

- Type of Strategy: Enforcement
- Purpose: To limit the potential for localized PM2.5 and toxic impacts associated with illegal open burning of residential waste
- Goal: In addition to the District's existing surveillance and complaint response efforts, District staff will conduct targeted surveillance efforts within the South Central Fresno community and surrounding areas at least once per quarter for the next 5 years

Agricultural Open Burning

Agricultural Open Burning: Provide Incentives for Alternatives to Agricultural Burning

- Type of Strategy: Incentive
- Purpose: To limit the potential for localized PM_{2.5} impacts associated with open agricultural burning by providing enhanced access to funding for the District's Alternative to Agricultural Open Burning Incentive Program for growers within South Central Fresno and the surrounding area
- Goal: Fund up to 700 acres of alternative practices
- Target: 75 tons PM_{2.5}
- Incentives to be invested: \$375,000

Industrial Sources

Stationary Sources: Provide incentives to plating operations to further reduce chrome emissions

- Type of Strategy: Outreach, Incentive
- Purpose: To provide incentives to Chrome Plating operations to further reduce emissions of chromium, using new state funding guidelines for chrome plating facilities switching to trivalent chrome or controlling emissions beyond rule levels
- Goal: Discuss incentive availability with all chrome plating facilities in community, fund all willing partners, as feasible
- Target: Reduction in toxic chromium emissions
- Incentives: 90% of eligible costs for trivalent chromium conversion, 80% for other control technologies (\$300,000 cap)

Stationary Sources: Evaluate feasibility of funding further emissions reductions from biomass power facility (include mobile sources)

- Type of Strategy: Incentive
- Purpose: To evaluate the feasibility of an incentive program for biomass facilities to fund the installation of technologies that further reduce emissions, including those from mobile sources
- Goal: The District and Rio Bravo Fresno commit to working together to identify potential emission reduction opportunities, through examining the feasibility of the following strategies and identifying and securing available grant funding to assist in their implementation:
 - Retrofitting the electrostatic precipitator transformer rectifier and/or controls to improve capture of particulate matter
 - Replacing on-site mobile equipment (chip dozer, front end loader, etc.) with new units
 - Retrofitting biomass receiving and handling equipment with improved dust control systems to reduce particulate emissions
- Target: Reductions in PM 2.5

Stationary Sources: Evaluate feasibility of funding further emissions reductions from glass manufacturing plants (include mobile sources)

- Type of Strategy: Incentive
- Purpose: To evaluate the feasibility of an incentive program for glass manufacturing facilities to fund the installation of technologies that further reduce emissions, including those from mobile sources.
- Goal: The District commits to working with Vitro in effort to identify and assess feasibility of potential emission reduction strategies, and identifying available grant funding to assist in their implementation:
 - Replacing on-site mobile equipment (front end loaders, etc.) with new units
 - Planting trees/green belt/vegetation on the southeastern facility boundary
 - Significantly reducing the amount of material stored in the outdoor cullet glass storage piles
- Target: Reductions in PM 2.5, diesel particulate

Stationary Sources: Pilot Training Program for Conducting Self-Inspections at Gas Stations

- Type of Strategy: Compliance Assistance
- Purpose: To limit the potential for air quality impacts associated with the vapor recovery defects at gasoline dispensing stations
- Goal: Develop a new pilot training program to instruct gas station operators on conducting thorough self-inspections of the vapor recovery systems to aid in the identification and timely repair of vapor recovery system defects. The District will offer to provide the hands-on training to each gas station operator in the community.

Stationary Sources: Enhanced Inspection Frequency

- Type of Strategy: Enforcement
- Purpose: To limit the potential for air quality impacts associated with the failure to comply with emission standards established by District permit, rule, or regulation
- Goal: District staff will inspect each facility that has had an emission violation over the past 3 years at least twice per calendar year for the next 5 years or until the facility has 4 consecutive inspections without an emission violation, whichever occurs first

Stationary Sources: Provide incentives to install advanced control technology

- Type of Strategy: Outreach, Incentive
- Purpose: To provide incentives for stationary sources within the community to install advanced control technology, beyond existing controls, that would not otherwise be economically feasible to install
 - State currently developing funding guidance for such projects
 - Will identify types of facilities not otherwise identified in CERP, work with willing partners to implement controls
- Goal: Funding availability, and number and type of projects, will be developed, with input of steering committee, when state funding guidelines are available for stationary source funding
- Target: Reductions in PM_{2.5} and/or Toxic Air Contaminants (quantity of reductions to be determined)

Land Use/Urban Sources

Solar Power: Seek incentives for local businesses and homeowners to install solar power and energy storage

- Type of Strategy: Incentive
- Purpose: To work with the Public Utilities Commission and utilities to provide incentives for local businesses and homeowners to install rooftop/community solar power and energy storage systems
 - State currently developing funding guidance for such projects
- Goal: Funding available, and number and type of projects will be developed, with input of steering committee, when state funding guidelines are available
- Target: To be determined, working with PUC

Commercial Cooking: Further reduce particulate emissions from commercial underfired charbroilers

- Type of Strategy: Incentives (with regulatory backstop)
- Purpose: To provide incentives to further reduce particulate emissions from large restaurants that use underfired charbroilers
- Goal:
 - Partner with willing restaurants and provide \$150,000 in incentive funding per restaurant for the installation of control equipment to reduce particulate emission from underfired charbroilers
 - Provide enhanced outreach and education to local restaurants regarding health impacts and availability of funding for installation of controls
- Target:
 - Invest up to \$1,200,000 and achieve approximately 4 tons of PM2.5 per year in emissions reductions from underfired charbroilers in community

Land Use/Sustainable Development: Support Projects that Reduce VMT

- Type of Strategy: Partnership
- Purpose: To reduce vehicle miles traveled (VMT) in the community through measures that promote active transport and increase the walkability of community neighborhoods.
- Goal: Partner with City of Fresno to identify opportunities, such as District CEQA commenting process, District's guidelines for general plans, District's published Air Quality Mitigation Strategies, committee/public participation in city planning and General Plan development efforts, etc., to expand understanding of air quality impacts of proposals and potential air quality benefits of alternatives.

Land Use: Support Planning and Development of Clean Fueling Infrastructure

- Type of Strategy: Advocacy/Incentives
- Purpose: To provide support for planning and development of fueling infrastructure for zero and near-zero emission vehicles to support broader deployment of clean vehicles
- Goal: Provide District support to broaden fueling infrastructure network for zero and near-zero-emission vehicles to facilitate broader deployment and prioritize funding through existing District programs, including installing 20 electric vehicle charging stations, and two alternative fuel fueling stations.
- Incentives to be invested:
 - Charge-Up: 20 EV charging stations @ up to \$50,000 = \$1,000,000;
 - Alternative Fuel Fueling Station: 2 stations @ up to \$1,000,000 = \$2,000,000

New Construction: Provide assistance during the CEQA process

- Type of Strategy: Land use
- Purpose: To provide assistance during the California Environmental Quality Act (CEQA) process with guidance on how the project may impact air quality in the Valley, and information on how air pollution impacts can be reduced
- Goal: Work with Lead Agencies and project proponents to enhance project designs in the early stages of the planning process for a better overall project with minimized impact on air quality, by early identification of feasible mitigation measures
- Target: Reductions in criteria pollutants and/or Toxic Air Contaminants

Fugitive Dust: Enhanced Enforcement Regulation

VIII Fugitive Dust Requirements

- Type of Strategy: Enforcement
- Purpose: 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
- Goal: In addition to the District's existing surveillance and complaint response efforts, District staff will conduct at least one targeted enforcement effort within the South Central Fresno community during both the 2nd and 3rd quarter for the next 5 years

Road Dust: Evaluate increasing frequency of street sweeping

- Type of Strategy: Partnership
- Purpose: To evaluate air quality impacts and feasibility of increasing frequency of street sweeping along freeways and streets
- Goal: If found to be effective in reducing particulate emissions, partner with other entities (i.e. City of Fresno, Fresno County, and California Department of Transportation) to identify opportunities to increase street sweeping efforts in the community

Road Dust: Evaluate feasibility of road paving improvements

- Type of Strategy: Partnership
- Purpose: To identify opportunities to reduce dust from paved and unpaved roads in the community through road paving improvements
- Goal: Partner with other entities (including City of Fresno, Fresno County, and Fresno Council of Governments) to identify opportunities, such as Congestion Mitigation and Air Quality funding, to improve road paving efforts in the community where most needed to reduce health impacts

Lawn and Garden: Provide Enhanced Incentives for Replacement of Residential Lawn and Garden Equipment

- Type of Strategy: Incentive
- Purpose: To provide increased incentives for the replacement of residential lawn and garden equipment in the community through the District's Clean Green Yard Machines Program
- Goal: Increase outreach and access to incentive funding for 100% of equipment cost, resulting in increased participation in the program to replace 570 gas powered lawn and garden equipment units in the community with zero emission alternatives
- Target: Reductions in PM and NOx (quantity of emission reductions to be determined)
- Incentives to be invested: \$200,000 to replace 570 units

Lawn and Garden: Enhance Outreach and Access to Incentive Funding for Commercial Lawn and Garden Equipment

- Type of Strategy: Incentive
- Purpose: To provide enhanced outreach and access to incentive program for the replacement of commercial-scale lawn and garden equipment in the community through the District's Clean Green Yard Machines program (available to lawn care providers and public agencies)
- Goal: Increase outreach and access to incentive funding resulting in increased participation in the program to replace 60 commercial grade gas powered lawn equipment with zero emission alternatives
- Target: Reductions in PM and NOx (quantity of emission reductions to be determined)
- Incentives to be invested: \$75,000 to replace 60 units

Public Fleets: Enhance Outreach and Access to Incentive Funding for Public Fleet Vehicles

- Type of Strategy: Incentive
- Purpose: To provide increased outreach and access to incentive funding for the replacement of older, high polluting public fleet vehicles with cleanest available vehicles operating within South Central Fresno.
- Goal: Work closely with public agencies, including City of Fresno and Fresno County, to replace vehicles through existing District incentive programs, including Heavy-Duty Engine Incentive Program and Public Benefit Grants Program.
- Target: Reductions in PM2.5 and/or Toxic Air Contaminants (quantity of reductions dependent on vehicle type and program)
- Incentives to be invested: \$8,000,000. Per-vehicle incentives will be dependent on vehicle type and program

Exposure Reduction Strategies

HAL Schools: Increase Participation

- Type of Strategy: Outreach
- Purpose: To reduce children's exposure to unhealthy air by increasing enrollment of schools in the Healthy Air Living Schools program
- Goal:
 - Seek adoption of ROAR guidelines at all 5 school districts in the boundary
 - Meet with teams of staff from 10 schools within boundary (i.e. coaches, nurses, extracurricular leads, science teachers)
 - Attend 5 school events/parent organization meetings
 - Supply AQ Ed materials to family service providers at each District

Air Filtration Systems in Community Schools

- Type of Strategy: Incentive
- Purpose: To incentivize the purchase and installation of advanced air filtration systems in schools and daycares
- Goal: Pilot program- Meet with administrators/staff to survey current equipment; help fund upgrades to high-efficacy filters when HVACs permit; fund portable air cleaners for schools with older HVACs
- Incentives to be invested: Approximately \$100,000 for WINIX air cleaners, plus replacement HEPA filters and MERV-14 filters

Exposure Reduction: mitigate indoor exposure to air pollution through weatherization and enhanced energy efficiency

- Type of Strategy: Incentive, Exposure Reduction
- Purpose: To reduce indoor exposure to air pollution in residences by incentivizing energy efficient weatherization upgrades
- Goal: District to work with partners at California Department of Community Services & Development to assist low-income community members in accessing state's Low Income Weatherization Program (LIWP) and Weatherization Assistance Program (WAP) incentives
- Target: Host 1 community meeting where California Department of Community Services & Development attends and educates community on benefits of weatherization and assists with enrolling community members in LIWP or WAP

Exposure Reduction: mitigate indoor exposure to air pollution through education

- Type of Strategy: Outreach, Exposure Reduction
- Purpose: To reduce indoor exposure to outside air pollution
- Goal: District to educate community on health benefits of upgrading to high-efficiency filters, work with California's Low Income Home Energy Assistance Program (LIHEAP) to offset associated energy costs
- Target: Host 1 community meeting where California Department of Community Services & Development attends and educates community on benefits of improved filtration and assists with enrolling community members in LIHEAP

Urban Greening/Forestry: Identify opportunities for increased urban greening and forestry in the community

- Type of Strategy: Partnership, Exposure Reduction
- Purpose: To increase urban greening and forestry in the community through partnerships with other entities
- Goal: Partner with other entities (i.e. City of Fresno, Natural Resources Agency, CAL Fire) to identify new or existing resources or programs (Per Capita Program, Urban & Community Forestry Grant Program) that can provide funding to increase urban greening and forestry in the community
- Target
 - Quantification of air quality benefits from urban greening small, variable
 - Studies have shown several community benefits, including some reduction of PM2.5 and VOC's, heat island mitigation, and community beautification

Vegetative Barriers: Provide Incentives for Installation of Vegetative Barriers Around/Near Sources Of Concern

- Type of Strategy: Incentive, Exposure Reduction
- Purpose: To provide incentives for the installation of vegetative barriers around/near sources of concern to reduce particulate matter, odor, and other emissions, as feasible
- Goal: Work closely with the community, city, California Department of Transportation, Natural Resource Conservation Service and others to investigate and identify areas suitable for installation of vegetative barriers. Type of projects will be developed with input of steering committee, and funded as funding sources are identified
- Target: Quantity of reductions to be determined

Idling-reduction Strategy: Protect Sensitive Receptors

- Type of Strategy: Outreach, Exposure Reduction
- Purpose: To reduce the exposure of sensitive individuals to vehicle emissions at schools and other areas serving children and seniors
- Goal:
 - Distribute 30 sets of English/Spanish “No Idling” signs to schools, libraries, senior centers, parks, nursing homes, pediatricians, daycares, and medical centers
 - Develop and distribute idle-reduction infographics at each location
 - Develop and deliver 5 presentations about the impacts of vehicle exhaust, HAL Schools and available resources

Community Air Quality Outreach Strategy

- Type of Strategy: Outreach, Exposure Reduction
- Purpose: To provide additional information to the community about real-time air quality conditions and measures the public can take to protect themselves during poor air quality episodes
- Goal:
 - Launch social media campaigns based on myRAAN, air quality education (Facebook, Twitter, Instagram)
 - Partner with local civic organizations and other community organizations to host workshops on a variety of air quality topics at libraries, community centers, health centers, and schools
- Target: Increased community awareness regarding air quality conditions and available tools through myRAAN registrations, app downloads, social media followers

Sharing Clean Air Efforts and How Communities Can Get Involved

- Type of Strategy: Outreach
- Purpose: To increase awareness of community air quality improvement programs and available incentives by hosting outreach events within the community
- Goal:
 - District will work with community to host workshops and symposiums to share air quality information on air quality improvement topics at libraries, community or senior centers, health centers, and schools
 - Topics may include CGYM, Burn Cleaner, DCSJ, TITU, HAL Schools

Contact Information

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General Air District Contacts and Information:

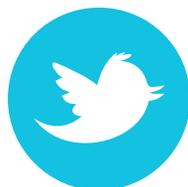
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South Central Fresno

Community Emissions Reduction Program (CERP) Development

Additional Strategies:

California Air Resources Board (CARB)

Mobile Sources: Advanced Clean Trucks

- Type of Strategy: Regulatory
- Purpose: To develop and consider proposals for new approaches and strategies that may transition to zero emission technology those truck fleets that operate in urban centers, have stop and go driving cycles, and are centrally maintained and fueled.
- Goal: Transition to zero emission
- Target: Coming soon

Mobile Sources: Heavy – Duty Inspection and Maintenance

- Type of Strategy: Maintenance and Inspection Program
- Purpose: Develop a more comprehensive Heavy – Duty Inspection and maintenance program.
- Goal: Ensure all vehicle emissions control systems are adequately maintained throughout the vehicles' operating lives, resulting in PM_{2.5} emissions reductions.
- Target: Coming soon

Mobile Sources: Locomotives

- Type of Strategy: Regulatory
- Purpose: To reduce emissions from idling freight and passenger rail activities, and reduce emissions from the older, dirtier locomotives currently operating in California.
- Goal: Reduced idling of locomotives and replacement of older, dirtier locomotives.
- Target: Too early to quantify

Mobile Sources: Advanced Clean Cars 2

- Type of Strategy: Regulatory
- Purpose: Further reduce emissions from passenger vehicles by revising the current Advanced Clean Cars Program.
- Goal: Reduce greenhouse gas, criteria pollutant, and air toxics emissions with new emission standards and mandating the sale of zero emission vehicles.
- Target: Coming soon

Off-Road Sources: New Transport Refrigeration Unit Regulation

- Type of Strategy: Regulation
- Purpose: Reduce toxic air contaminant, criteria pollutant, and greenhouse gas emissions.
- Goal: Improving freight efficiency and transitioning to zero or near-zero emission technologies.
- Target: Too early to quantify

Off-Road Sources: Small Off-Road Engines

- Type of Strategy: Regulatory
- Purpose: To consider new standards for small off-road engines (SORE), which are spark-ignition engines rated at or below 19 kilowatts and used primarily for lawn, garden, and other outdoor power equipment.
- Goal: Transition to zero emission.
- Target: Coming soon

Area-Wide Sources: Commercial Cooking Suggested Control Measure

- Type of Strategy: Suggested control measure
- Purpose: Evaluate current requirements for commercial cooking operations and, if necessary, make improvements to achieve additional emission reductions.
- Goal: Reduce particulate matter and VOC emissions.
- Target: Too early to quantify