

### *C.1: INCENTIVE PROGRAM TO HOST A LOCAL TUNE IN TUNE UP EVENT TO REDUCE EMISSIONS FROM OLDER, HIGH POLLUTING CARS*

*Overview:* The goal of this strategy is to reduce emissions of high emitting passenger vehicles that may be in need of repair. Reducing emissions from passenger vehicles is important due to their contribution to the formation of ozone in the Valley. Through the District's Tune In Tune Up Program, financial incentives up to \$850 are available for emissions related repairs of high emitting vehicles. Through the program weekend testing events are 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.

*Implementing Agency:* SJVAPCD

*Type of Action:* Incentives

*Implementation:* 2020-2023

*Description of Proposed Actions:* This strategy would provide funding for a Tune In Tune Up event in the community of South Central Fresno and funding for vehicle repairs. This measure would provide up to \$850 in vehicle emissions related repairs. The overall cost of this measure is \$1,000,000 which would provide funding for the event related expenses as well as 1,250 vehicle repairs. This measure is expected to achieve 11.6 tons of NOx.

#### **What we've heard so far:**

- Expand program to high pollution areas only
- High priority
- More widespread announcements
- Host smaller, more frequent in area

#### **Implementation feedback:**

- What is the best frequency?
- What barriers do you see to community members to taking advantage of program?
  - How do we change that?
- Events have been held at the Fresno Fairgrounds, is this the best location for the community?
- What is the best approach for outreach to community members?

## *HD.1: INCENTIVE PROGRAM FOR HEAVY DUTY TRUCKS REPLACEMENT WITH ZERO AND NEAR ZERO EMISSION TECHNOLOGY*

*Overview:* The goal of this strategy is to reduce emissions from heavy duty diesel trucks operating in the South Central Fresno community. The District currently offers incentives up to \$200,000 for the replacement of an in use diesel truck with cleaner technology, including battery electric, hybrid and near zero emission trucks. Heavy duty diesel trucks are currently subject to the state on-road truck and bus regulation which will require fleet turnover to 2010 emission standard compliant engines. Advances in engine technology have resulted in cleaner engines or battery electric units in some applications. By reducing or eliminating emissions from heavy duty trucks significant PM2.5, diesel particulate matter, and NOx emissions reductions can be achieved.

*Implementing Agency:* SJVAPCD

*Type of Action:* Incentives

*Implementation:* 2019-2024

*Description of Proposed Actions:* This strategy would provide enhanced outreach and access to incentive funding for zero and near-zero emissions clean truck technologies that operate within the community. This strategy would rely on the Board-approved methodology and funding levels currently available in the District's truck replacement incentive program. This measure would replace 75 older, heavy duty diesel trucks operating in South Central Fresno with zero or near zero emission technology at an expected cost of \$7,500,000. The emission reductions associated with this measure would achieve 0.66 tons of PM2.5 diesel particulate matter, and 246 tons of NOx.

### **What we've heard so far:**

- Focus on vehicles in neighborhoods
- Prioritize businesses within community
- Provide goal that % of fleet for distribution centers be zero/near-zero and use that to prioritize

### **Implementation Feedback**

- How to prioritize vehicles for funding?
  - Greatest emissions reduction?
  - Small fleets vs large fleets? Fleets must be in compliance with applicable regulations including state truck and bus regulation
  - Vehicle Technology preference? (natural gas, low NOx, battery electric)
- Preferred outreach activities?

## *HD.7: INCENTIVE PROGRAM FOR REPLACING OLDER DIESEL SCHOOL BUSES WITH ZERO ~~OR NEAR-ZERO~~ EMISSION SCHOOL BUSES*

**Overview:** 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.

Replacing older school buses is important to reduce children's exposure to diesel emissions including NOx and PM2.5 and 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>

The District administers the following incentive programs targeted at reducing emissions from existing school bus fleets with the Valley:

- Electric School Bus Incentive Program – <http://valleyair.org/grants/electric-school-bus.htm>. This program is operated by the District and provides incentives for the replacement of existing older, higher-polluting school buses with new, electric school buses.
- Volkswagen Mitigation Trust – <http://vwbusmoney.valleyair.org/>  
The VW Mitigation Trust has \$130 million in funds to replace older, high-polluting transit, school, and shuttle buses with new battery-electric or fuel-cell buses. Replacing an older bus with a zero-emission bus eliminates particulate matter and other pollutants that impact children and residents riding the buses, as well as residents throughout California communities. This statewide program is being administered by the District.

**Implementing Agency:** SJVAPCD

**Type of Action:** Incentives

**Implementation:** 2019-2024

**Description of Proposed Actions:** The goal of this action is to replace up to 16 school buses, operated by Fresno Unified School District, Fowler Unified School District and/or Central Unified School District with zero-emission battery-electric school buses that operate within the community, utilizing Board-approved methodology. The proposed funding amount of \$6,400,000 would cover up to 100% of the cost of replacing up to 16 diesel school buses with electric buses at \$400,000 each. Estimated emissions

reductions associated with this measure include **8.32** tons of PM2.5 consisting of diesel particulate matter and **20.8** tons of NOx.

**What we've heard so far:**

- More funding for more than 16 school buses (24)
- High priority measure
- Give buses directly to schools

**Implementation questions:**

- Is a target of 24 buses sufficient?
- How do we prioritize/target schools?
- Do you have contacts at school districts we can leverage?
- Provide flexibility to school districts to operate busses throughout the District with a priority to routes in the community?

### *HD.9: INCENTIVE PROGRAM FOR REPLACING OLDER DIESEL LOCOMOTIVES WITH NEW CLEAN-ENGINE TECHNOLOGY*

*Overview:* To provide incentive funding for the replacement of older, high polluting locomotives with new clean-technology locomotives operating within and surrounding South-Central Fresno.

Replacing older locomotives is important to reduce the public's exposure to diesel emissions, including PM2.5 in the form of diesel particulate and NOx. These pollutants negatively impact human health, especially for sensitive populations such as children and the elderly. New, clean-technology locomotives generate significantly lower emissions than older, uncontrolled diesel locomotives.

The District offers two incentive programs for locomotive fleets interested in transitioning to newer, clean technology, including:

- Heavy-Duty Program – <http://valleyair.org/grants/locomotive.htm>. Locomotive replacements can be funded as an eligible project category under the District's utilizing funding provided to support AB 617. These projects are administered according to Carl Moyer Program guidelines and are subject to additional requirements contained within the approved AB 617 Community Air Protection Guidelines. This program is operated by the District.
- Proposition 1B - <http://valleyair.org/grants/locomotives-prop1b.htm>  
This program incentivizes the reduction of emissions and health risks associated with freight movement along California's trade corridors via upgrading to cleaner technologies or installation of emissions capture and control systems.
- To date, The District has administered nearly \$66million to fund the replacement of old, high-polluting locomotive engines with new, tier 4 and CARB verified locomotive engines.
- South Coast APCD is administering the Volkswagen Environmental Mitigation Trust Funding on behalf of the State of California to replace high-polluting locomotive engines throughout California with newer, low-polluting Tier 4, CARB verified locomotive engines. This program will be launching in the fall of 2019.  
<http://www.aqmd.gov/vw/>

*Implementing Agency:* SJVAPCD

*Type of Action:* Incentives

*Implementation:* 2021

*Description of Proposed Actions:* ~~The goal of this action is to replace up to two (2) older, high-polluting locomotives operating within the community. The proposed funding amount of \$5,200,000 would cover up to 95% of the cost of replacing up to two (2)~~

~~diesel locomotives at \$2,600,000 each utilizing Board-approved methodology. This measure is estimated to achieve 2.8 tons of PM2.5 diesel particulate matter, and 126 tons of NOx emissions reductions.~~

At this time, the South Central Fresno Community Steering Committee is not interested in the District funding locomotives as a part of the SC Fresno CERP implementation, and instead requested that the \$5,200,000 be reallocated to other programs, including HD.7 for replacement of School Buses.

#### *HD.10: INCENTIVE PROGRAM FOR REPLACING OLDER DIESEL RAILCAR MOVERS AND SWITCHER LOCOMOTIVES WITH NEW CLEAN-ENGINE TECHNOLOGY*

*Overview:* To provide incentive funding for the replacement of older, high polluting railcar movers and/or switcher locomotives with new clean-technology railcar movers and/or switcher locomotives operating within and surrounding South-Central Fresno.

Replacing older railcar movers and/or switcher locomotives is important to reduce the public's exposure to diesel emissions including NOx and PM2.5. These pollutants negatively impact human health, especially for sensitive populations such as children and the elderly. New, clean-technology railcar movers and/or switcher locomotives are significantly cleaner than older uncontrolled diesel railcar movers and/or switcher locomotives.

The District offers two incentive programs for locomotive fleets interested in transitioning to newer, clean technology, including:

- Heavy-Duty Program – <http://valleyair.org/grants/locomotive.htm>. Locomotive replacements, including switcher locomotives and railcar movers can be funded as an eligible project category under the District's utilizing funding provided to support AB 617. These projects are administered according to Carl Moyer Program guidelines and are subject to additional requirements contained within the approved AB 617 Community Air Protection Guidelines. This program is operated by the District.
- Proposition 1B - <http://valleyair.org/grants/locomotives-prop1b.htm>  
This program incentivizes the reduction of emissions and health risks associated with freight movement along California's trade corridors via upgrading to cleaner technologies or installation of emissions capture and control systems.
- To date, the District has administered nearly \$66 million to fund the replacement of old, high-polluting locomotive engines with new, Tier 4 and CARB verified locomotive engines.

*Implementing Agency:* SJVAPCD

*Type of Action:* Incentives

*Implementation:* 2020-2024

*Description of Proposed Actions:* The goal of this action is to replace up to three (3) older, high-polluting railcar movers and/or switcher locomotives operating within and surrounding the community. The proposed funding amount of \$4,100,000 would cover up to 95% of the cost of replacing up to three (3) diesel railcar movers and/or switcher locomotives at \$1,340,875 each, utilizing Board-approved methodology. Estimated emissions reductions associated with this measure include 1.75 tons of PM2.5 consisting of diesel particulate matter and 66.5 tons of NOx.

**What we've heard so far:**

- Too much money for return on investment
- Spend less money on this measure and more on other measures that benefit the community

**Implementation Feedback:**

- Where should the funding originally planned for locomotives be moved to?
- Do you have contacts at the railyards that could be utilized?
- Would additional information about locomotives or switchers be helpful in making decisions about funding these types of projects?