

Shafter: Summary of CERP Measures

Measure #	Implementing Agency	Draft Measure	Estimated Lifetime Emissions Reductions (tons)			# of Units	Type of Unit	Project Lifetime	Incentive Funding	Cost Effectiveness (\$/ton)
			PM2.5	NOx	Toxics					
Heavy Duty Mobile Sources										
HD.1	SJVAPCD	Provide Enhanced Incentive Funding for Heavy Duty Truck Replacement with Zero and Near-Zero Emission Technology	131.1	0.36	x	60 40	Trucks		\$ 4,000,000	\$30,000 - \$60,000
HD.2	SJVAPCD	Deployment of Zero Emission Yard Trucks and Truck Refrigeration Units (TRUs)	1.99	0.03	x	30 10	Yard Trucks or TRUs		\$ 1,500,000	\$65,000 - \$200,000
HD.3	CARB, SJVAPCD	Enhanced Enforcement of Statewide Anti-Idling Regulation	*	*	*					
HD.4	SJVAPCD	Incentive Program for Replacing Older Diesel School Buses with Zero or Near-Zero Emission Technology	0.33	3.25	x	8 10	School Buses		\$ 4,000,000	\$ 218,000
HD.5	SJVAPCD	Incentive Program for Transit Bus Replacement for Dial-a-Ride	0.629	0.62	x	2	Electric Transit Vehicles		\$ 400,000	\$ 340,000
HD.6	SJVAPCD	Incentive Program for Replacing Older Diesel Locomotives with New Clean-Engine Technology	2.8	126	x	2	Locomotives		\$ 5,200,000	\$ 12,000
HD.7	SJVAPCD	Incentives for Replacing Older Diesel Railcar Movers and Switchers with New Clean-Engine Technology	1.5	57	x	3	Switcher Locomotives		\$ 4,100,000	\$ 10,000
HD.8	SJVAPCD, City, County, PUC	Support Planning and Development of Clean Fueling Infrastructure: Alternative Fuel Fueling Station	*	*	x	1	Alternative Fueling Station		\$ 1,000,000	N/A
HD.9	City, County, Caltrans	Heavy Duty Truck Rerouting								
Older/High Polluting Passenger Cars										
C.1	SJVAPCD	Host Tune-In Tune-Up Events within Community	*	4.6	x	500	Vehicle Repairs		\$ 400,000	\$ 45,000
C.2	SJVAPCD	Incentive Program for the Replacement of Passenger Vehicles with Battery Electric or Plug-in Hybrid Vehicles	0.03	1.08	x	100	Clean-air Vehicles		\$ 2,020,000	\$ 240,000
C.3	SJVAPCD	Incentive Program for Installation of EV Charging Infrastructure	*	*	*	17	EV Chargers		\$ 100,000	N/A
C.4	SJVAPCD	Increased Educational Training for EV Mechanics	*	*	*	2	Training Events		\$ 30,000	N/A
C.5	SJVAPCD	Incentive Program for Launch of Car Share Program	*	*	x	1	Car Share Program		\$ 300,000	N/A
Agricultural Operations										
A.1	SJVAPCD	Provide Incentives for Electric Dairy Feed Mixing Equipment	18	350	x	5	Feed mix equipment sets		\$ 3,900,000	\$ 21,000
A.2	SJVAPCD	Provide Incentives for Low-Dust Nut Harvesters	90	42.5	x	25	Harvesters		\$ 2,500,000	\$ 2,100
A.3	SJVAPCD	Provide Incentives for Alternatives to Agricultural Burning (chipping/soil incorporation)	*	*	x	2000	acres		\$ 1,000,000	\$ 2,500
A.4	SJVAPCD	Promote Implementation of Conservation Tillage Practices				TBD	acres			
A.5	SJVAPCD, PUC/IOU	Provide Incentives to Replace Diesel Agricultural Pump Engines with Electric Motors	4	90	x	10	Engines		\$ 230,000	\$ 6,700
A.6	SJVAPCD	Provide Incentives to Replace Diesel Ag Equipment (tractors) with Cleanest Available Equipment	60	750	x	100	Tractors		\$ 5,000,000	\$ 7,100
A.7	SJVAPCD	Provide Incentives for the Replacement of Dairy Trucks with Zero or Near-Zero Emission Trucks	0	0	x	20 0	Trucks		\$ -	\$ 45,000
A.8	SJVAPCD, CDFA, NRCS	Support dairy operations near Shafter in installing dairy digesters-			x					
A.9	SJVAPCD, CDFA, NRCS	Support dairy farms near Shafter in implementing Alternative Manure Management Strategies			x					
A.10	CARB/DPR, Ag Commissioner	Pesticide Measures (under development by CARB and DPR)			x					
Industrial Sources										
IS.1	SJVAPCD	Flares-Amend Rule 4311	-	15	x					

IS.2	SJVAPCD	Evaluate feasibility of funding further emissions reductions from oil and gas production operations	*	*	X	TBD	TBD			
IS.3	SJVAPCD	Enhanced Inspection Frequency	*	*	*					
IS.4	SJVAPCD	Pilot Training Program for Conducting Self-Inspections at Gas Stations	*	*	*					
IS.5	SJVAPCD	Provide Incentives to Install Advanced Control Technology	*	*	X	TBD	TBD			
Residential Burning										
RB.1	SJVAPCD	Provide Enhanced Incentives to Replace Wood Burning Devices	98	*	X	200	Devices		\$ 600,000	\$ 7,000
RB.2	SJVAPCD	Educate Public About Harmful Impacts of Wood Burning	*	*	*					
RB.3	SJVAPCD	Enhanced Enforcement of Wood Burning Curtailments	*	*	*					
RB.4	SJVAPCD, City, County	Outreach to Reduce Illegal Activity	*	*	*					
RB.5	SJVAPCD	Enhanced Enforcement to Reduce Illegal Burning of Residential Waste	*	*	*					
Land Use /Urban Sources										
SD.1	PUC, SJVAPCD	Seek incentives for local businesses and homeowners to install solar power and energy storage	*	*	*				\$ 1,500,000	\$ 1,000,000
CC.1	SJVAPCD	Incentives to reduce PM from commercial underfired charbroilers	TBD		X	1	Control Systems		\$ 150,000	\$ 135,000
LU.1	SJVAPCD, City	New Construction: Provide assistance during the CEQA process	*	*	*					
LU.2	SJVAPCD, City, County, COG, local developers, other local partners	Land Use/Sustainable Development: Implement Projects that Reduce VMT	*	*	X					
LU.3	City, County, and the California Division of Oil, Gas, and Geothermal Resources (DOGGR)	Setbacks for New Oil Drilling								
LU.4	CARB, HSRA	Construction Emissions: High Speed Rail Construction	TBD	TBD	X	TBD	TBD			
RD.1	City, County, CDOT	Road Dust: Evaluate increasing frequency of street sweeping	*							
RD.2	City, COGs, County	Road Dust: Road paving and sidewalk installations	*							
LG.1	SJVAPCD	Provide Enhanced Incentives for Replacement of Residential Lawn and Garden Equipment (Free for Shafter Residents)	13	20	X	280	Lawn & Garden Units		\$ 100,000	\$ 3,000
LG.2	SJVAPCD	Provide Enhanced Outreach and Access to Incentives for Replacement of Commercial Lawn and Garden Equipment	TBD	TBD	X	30	Lawn & Garden Units		\$ 40,000	N/A
PF.1	SJVAPCD, City, County	Enhance Outreach and Access to Incentive Funding for Public Fleet Vehicles	TBD	TBD	X	TBD	Vehicles		\$ 100,000	\$ 240,000
Exposure Reduction Measures										
SC.1	SJVAPCD	Air Filtration Systems in Community Schools	*	*	*	TBD	Filtration Systems		\$ 250,000	N/A
SC.2	SJVAPCD and local school districts	HAL Schools: Increase Participation	*	*	*					
VB.1	SJVAPCD, Caltrans, City, County	Provide Incentives for Installation of Vegetative Barriers Around/Near Sources Of Concern	*	*	*					
IAQ.1	CAPK, CSD, SJVAPCD, City, County, CEC	Mitigate indoor exposure to air pollution through weatherization and enhanced energy efficiency	*	*	*					
UG.1	SJVAPCD, City, County	Increased urban greening and forestry in the community	*	*	*	1000	Trees Planted			N/A
IR.1	SJVAPCD, CARB, City, County	Idling-Reduction Strategy: Protect Sensitive Receptors	*	*	*					
O.1	SJVAPCD	Outreach: Community Air Quality Outreach Strategy	*	*	*					
O.2	SJVAPCD	Outreach: Sharing Clean Air Efforts and How Communities Can Get Involved	*	*	*					
O.3	SJVAPCD, Local Partners	Joint Advocacy for Continued/Additional Funding to Support Air Quality Improvement Measures								
Subtotal: District Measures			421	1460						
Statewide Strategies										
	CARB	Reducing Emissions from Dairy and Other Livestock	*	*	*					

	CARB	Reducing Emissions from Organic Waste in Landfills	*	*	*				
	CARB	Cross-Agency Engagement and Integration of Pesticide Application Information	*	*	*				
	CARB	Reducing Emissions from Oil and Gas Systems	*	*	*				
	CARB	Advanced Clean Trucks Regulation	0.5	18.5	x				
	CARB	Heavy Duty Vehicle Inspection and Maintenance	9.1	589	x				
	CARB	Drayage Truck Regulation Amendments	*	*	*				
	CARB	Transport Refrigeration Unit Regulations	*	*	*				
	CARB	Real Emissions Assessment Logging System	*	*	*				
	CARB	Freight Handbook	*	*	*				
	CARB	Truck and Bus Local Idling Pilot Study	*	*	*				
	CARB	Cargo Handling Equipment Regulation Amendment	*	*	*				
	CARB	Advanced Clean Cars 2	0.07	3.7	x				
	CARB	Evaluation and Potential Development of Regulation to Reduce Idling for All Rail Yard Sources	*	*	*				
	CARB	Evaluation and Potential Development of Regulation to Reduce Emissions for Locomotives Not Preempted Under the Clean Air Act	*	*	*				
	CARB	New Standards for Small Off-Road Engines (SORE)	0	7.5	x				
	CARB	Commercial Cooking Suggested Control Measure	*	*	*				
	CARB	Conduct Periodic Supplemental Environmental Projects Outreach	*	*	*				
Subtotal: CARB Statewide Measures			9.67	618.7					
TOTALS			431	2079				\$ 38,420,000	

* = emissions and/or exposure reductions from this measure are expected, but will not be a quantifiable target

x = measure will result in reduction of toxic air contaminants

TBD = To Be Determined