

## DOCKETED

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San Joaquin Valley APCD

# **EV Infrastructure Planning and Investment in the San Joaquin Valley**

CEC Workshop December 7, 2015



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# PEV Readiness Plan

- Plan addresses unique Valley barriers and provides roadmap to increased adoption by addressing region-specific barriers:
  - Socioeconomic climate: Different from other regions with high PEV adoption rates
  - Geographic challenges: Valley is an expansive region with many rural and small communities that are spread out
  - Lack of Public Awareness
  - EV infrastructure and EV deployment behind other regions of the state, such as LA and Bay Area
  - Valley contains large populations of disadvantaged communities and environmental justice communities, more than any other region
- Plan includes a variety of resources to expedite citing and installation of charging infrastructure throughout the Valley
- Plan identifies and maps optimal locations for fast chargers and public access charging stations



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# PEV Readiness Plan Resources

- PEV Community PowerPoint Presentation
- Fact Sheets
  - The Basics, Costs and Benefits of PEV
- Sample Zoning, Permitting, and Inspection Provisions
- Guides for Homeowners, Workplaces, and Agencies
- RFP Templates
- Regional Charging and Siting Analysis
- Creation of a Plug-in Electric Vehicle Resources webpage at [valleyair.org/grants/pev](http://valleyair.org/grants/pev)
- Online cost-savings calculators

# Outreach Activities

## **Current and on-going:**

- Hundreds of copies of the PEV Readiness Plan and Siting Analysis distributed as well as digital copy available online
- District staff and PEVCC members have attended numerous local agency meetings, ride-and-drive events, and stakeholder workshops to discuss local PEV readiness activities and related incentives
- District has assisted local agencies in applying for various PEV and PEV infrastructure funding
- District continues to develop and administer multiple incentive programs aimed at all areas of PEV adoption



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# Plan Implementation

## **CEC grant for ZEV Awareness and Training**

- Three-year grant for \$300,000
- Activities to begin in 2016
- Three primary areas of focus:
  - Improving permitting and inspection standards and processes to facilitate EV charging station installations
  - Training contractors on EV Charging Station installation
  - Empowering local governments to become ready for ZEVs through education and outreach
- Deliverables: reports, workshops, and outreach materials
- Other components and resources may be developed depending on feedback and needs of local agencies



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# Public Fleet Vehicle Incentives

## Public Benefit Grants Program

### New Alternative Fuel Vehicle Purchase Component

- Eligible applications include public agencies and public educational institutions
- Accepts applications until funding is exhausted
- Promote cleaner alt. fuel technologies in public fleets
- New electric, plug-in hybrid, hydrogen or alt. fuel vehicles
- Funding can be combined with Public Pilot Fleet Program offered by the state
- Amount funded to date: **\$21.05 million**
- Vehicles contracted to date: **1,027**



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# Public Transportation and Infrastructure Incentives

## Public Benefit Grants Program

- Eligible applications include public agencies and public educational institutions
- Available during an open solicitation period

## Enhanced Transportation Strategies

- Enhanced Mass Transit and Transportation Systems, including the purchase and deployment of electric, plug-in hybrid, hydrogen or alt. fuel transit buses and shuttles
- Currently working on several of these projects

## Alternative Fuel Infrastructure

- Projects for large-scale EV charging for transit vehicles are eligible for funding



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# Public Transportation and Vehicle Incentives

## Technology Advancement Program

- Eligible applications include all Valley public agencies and private companies who operate in the Valley
- Available during an open solicitation period
- Types of projects directly related to EV include:
  - PHEV Wheel Loader, Pick-up Truck
  - EV Ag Spray Rig, Yard Truck
  - PHEV/CNG-Microturbine Class 7 Refrigerated Truck
- Amount funded to date: **\$ 4.8 million**
- Projects contracted to date: **15**
- Additional projects are currently pending contracts include fuel-cell/electric class 8 trucks and rural transit shuttle buses



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# Public Access EV Charging Incentives

## Charge Up! Program

### New Electric Vehicle Charging Stations

- Eligible applicants include public and private entities
- Funding can be leveraged with other state funding sources, such as ARB, CEC, and CALCAP, as well as with federal funding sources
- Publicly accessible, Level 2 and Level 3 Chargers
  - Amount funded to date: **Approximately \$ 1.3 million**
  - Chargers funded to date: **53 projects for 114 chargers**
  - Approximately 66% of the projects are in disadvantaged communities



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# Alt. Fuel Training Incentives

## Alternative Fuel Vehicle Mechanic Training Program

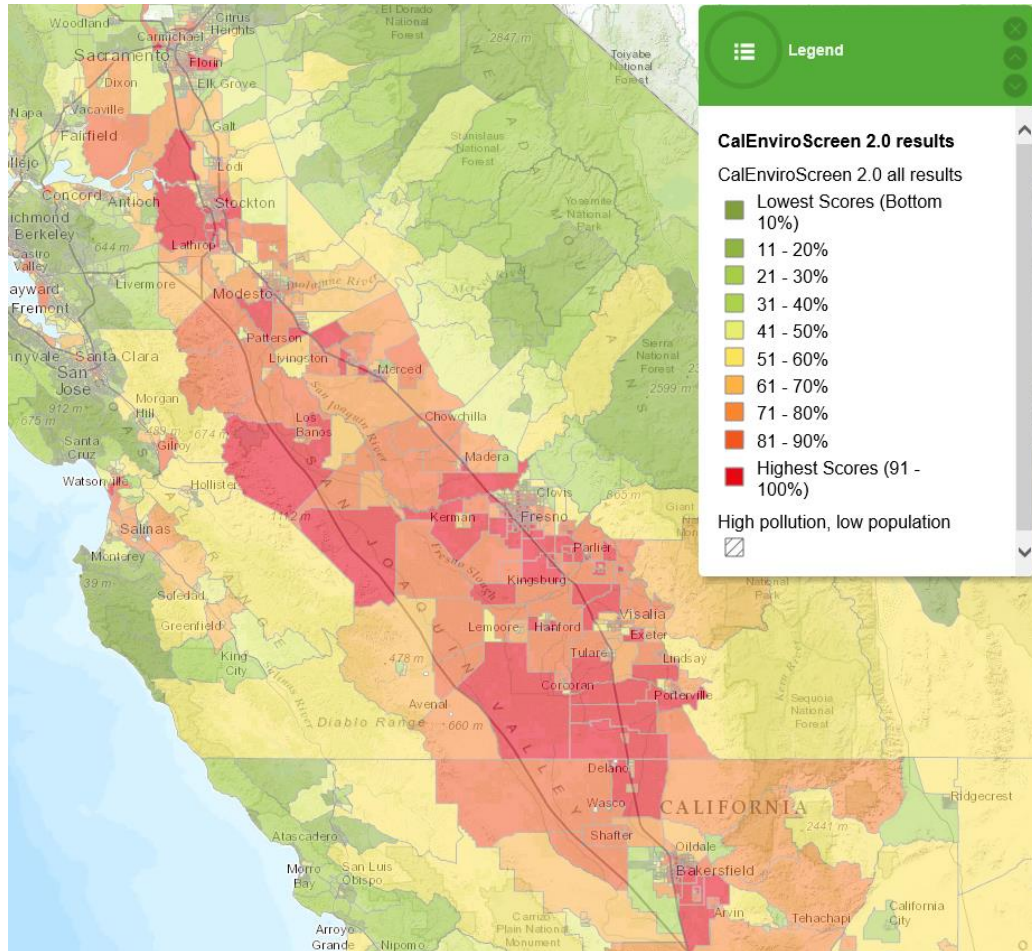
- Eligible applications include public agencies and public educational institutions
- Incentives for the education of personnel on the mechanics, operation safety and maintenance of alt. fuel vehicles, equipment structures, refueling/charging stations and tools involved with alt. fuel technologies
- Maximum of \$15,000 per fiscal year
- Amount funded to date: **\$83,660**
- Training projects contracted to date: **9**
- Increase in applications as agencies deploy EVs and install EV chargers



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# Targeting Disadvantaged Communities



# Challenges of Disadvantaged Communities

- Disadvantaged Communities in the Valley face additional economic and environmental challenges
- CalEPA's most recent CalEnviroScreen model showed **23 out of the top 30 disadvantaged communities in California are located in the San Joaquin Valley**
- Additional challenges for these communities include:
  - Demographics/Population Shift
  - Chronic poverty and high unemployment rates
  - Educational employment
- Imperative to have incentive programs targeting these communities and populations



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# Vehicle Incentives

## Drive Clean! Rebate Program

- Available to all Valley residents
- Accepts applications continuously until funding is exhausted
- Increase alternative fuel vehicles in the Valley
- Purchase/lease of new eligible electric, plug-in hybrid, hydrogen or alt. fuel vehicles
- Rebate can combine with other incentives/rebates, such as CVRP
- Amount funded to date: **\$6.6 million**
- Vehicles to date: **2,480**



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# Tune In Tune Up Vehicle Repair

- Tune-In Tune-Up vehicle repair events excels at reaching low income and minority populations
- 50% of vehicles participating in an event are from EJ communities and are 50% more likely to complete repairs
- 2 out of every 3 vehicles repaired were last registered in an EJ community
- 98% of vehicles with lapsed registrations have successfully registered following completion of repairs



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# EFMP Vehicle Replacement

- Implemented new vehicle replacement incentives into Tune In Tune Up weekend event model
- Accepted \$2.4 million in State funding to implement EFMP and Plus Up (\$6.4 million total)
- Utilizes existing weekend repair events to identify and engage candidates for replacement
  - Builds on success of repair program
  - Branding, name recognition, solid reputation, etc.
  - Additional incentives available if a PEV or PHEV is selected
  - Maximum incentives are available for residents of Disadvantaged Communities who purchase PEVs and PHEVs



# Support for Disadvantaged Communities

- Supporting Light Duty Financing - working on strategies to integrate into District's Tune In Tune Up Program
- Supporting Valley applications for Pilot Programs for Advanced Technology, Vehicle Car Sharing and Financing Programs
- Supporting Valley applications for Light-Duty Pilot Projects
- Leveraging District incentives with increased incentives for public fleets Supporting several Valley applications for Zero-emission Truck and Bus Pilot Projects

# Bringing More Funds to the Valley

- Both federal and state are expected to provide significant amount of funding in the coming years to reduce GHG and emissions in Disadvantaged Communities and increase EV infrastructure throughout the state.
- To assist the region, the District is:
  - Directly applying for funding
  - Assisting other Valley entities in applying for funding
  - Providing technical assistance with applications and proposals
  - Building coalition to ensure the Valley receives it's fair share of funding
- To date, the District has:
  - Written multiple letters of support for Valley projects applying for funding
  - Submitted several proposals



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# Contact Information

- Website: [valleyair.org/grants/](http://valleyair.org/grants/)
  - Public Benefit Program
  - Drive Clean! Program
  - Charge Up! Program
  - Alternative Fuel Mechanic Training
  - Tune In Tune Up & EFMP Programs
  - Technology Advancement Program
  - Plug in Electric Vehicle Resources Center
- Phone: (559) 230-5800
- Email: [weberip@valleyair.org](mailto:weberip@valleyair.org)
- Email Notification ListServ: <http://valleyair.org/lists/list.htm>
  - Incentive Program Development
  - Electric Vehicle Resources



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