

A blue-toned illustration of a cityscape at the top of the slide, featuring various buildings, trees, and people riding bicycles.

# California Climate Investments Affordable Housing & Sustainable Communities Program

## Overview & Latest Updates

SEEC Conference

June 14, 2017 | Fresno, CA



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# California Climate Investments Overview



# California Climate Investments: Statutory Requirements

1. Reduce GHG emissions

2. Direct investment toward the most disadvantaged communities in the State

3. Maximize economic, environmental, and public health benefits to the State



# California Climate Investments: Program Areas



Transportation & Sustainable  
Communities



Clean Energy & Energy Efficiency



Natural Resources  
& Waste Diversion

<http://www.caclimateinvestments.ca.gov/>



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Investment Category	Program	Department	2016-17 FY
<b>Continuous Appropriation</b>	High Speed Rail (25%)	High Speed Rail Authority	\$500,000,000
	Transit & Intercity Rail Capital Program (TIRCP) (10%)	CalSTA	\$200,000,000
	Low Carbon Transportation (5%)	ARB	\$100,000,000
	Affordable Housing and Sustainable Communities (20%)	SGC	\$400,000,000
<b>50% Reduction in Petroleum Use</b>	Transit & Intercity Rail Capital Program (TIRCP)	CalSTA	\$135,000,000
	Active Transportation Program (ATP)	CalTrans	\$10,000,000
	Low Carbon Transportation	ARB	\$368,000,000
<b>Local Climate Action</b>	Transformative Climate Communities	SGC	\$140,000,000
	Technical Assistance to Disadvantaged Communities (DACs)	SGC	\$2,000,000
<b>Short-Lived Climate Pollutants</b>	Black Carbon Woodsmoke	ARB	\$5,000,000
	Waste Diversion	CalRecycle	\$40,000,000
	Climate Smart Agriculture – Healthy Soils and Dairy Digesters	CDFA	\$57,500,000
<b>Safeguarding California/Water Action Plan</b>	Water Efficiency and Enhancement (SWEEP)	CDFA	\$7,500,000
<b>Safeguarding California/Carbon Sequestration</b>	Healthy Forests	CalFire	\$25,000,000
	Urban Forestry	CalFire	\$15,000,000
	Urban Greening	Natural Resources Agency	\$80,000,000
<b>Energy Efficiency/Renewable Energy</b>	Energy Corps	Conservation Corps	\$40,706,000
	Low Income Weatherization Program (LIWP)	CSD	\$20,000,000

# Disadvantaged Communities: CalEnviroScreen

## Pollution Burden

### Exposures

- Ozone Concentrations
- PM2.5 Concentrations
- Diesel PM Emissions
- Drinking Water Contaminants
- Pesticide Use
- Toxic Releases from Facilities
- Traffic Density

### Environmental Effects

- Cleanup Sites
- Groundwater Threats
- Hazardous Waste
- Impaired Water Bodies
- Solid Waste Sites and Facilities

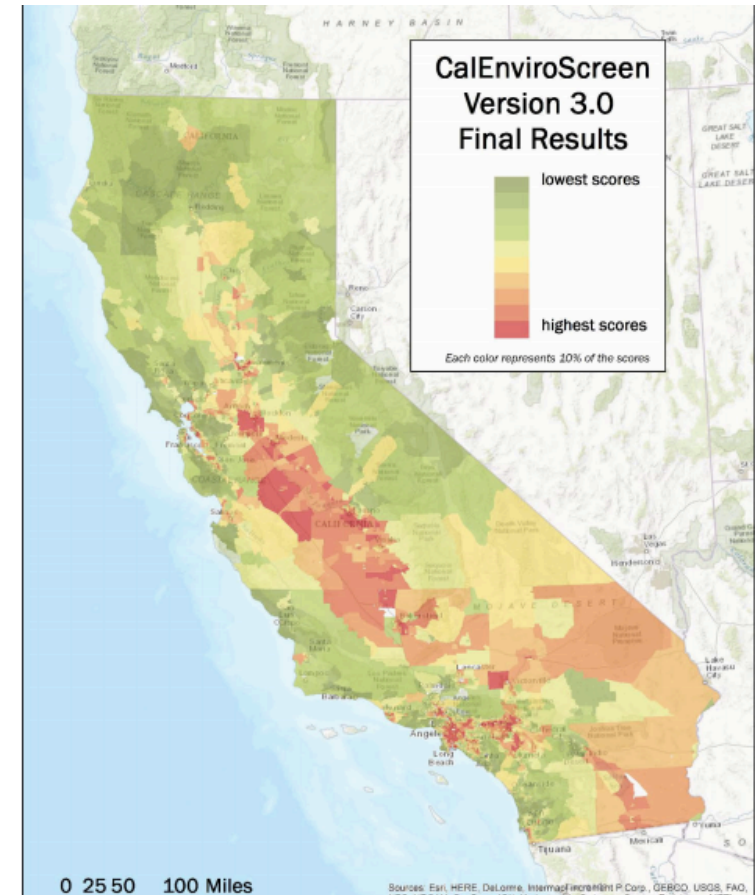
## Population Characteristics

### Sensitive Populations

- Asthma Emergency Department Visits
- Cardiovascular Disease (Emergency Department visits for Heart Attacks)
- Low Birth-Weight Infants

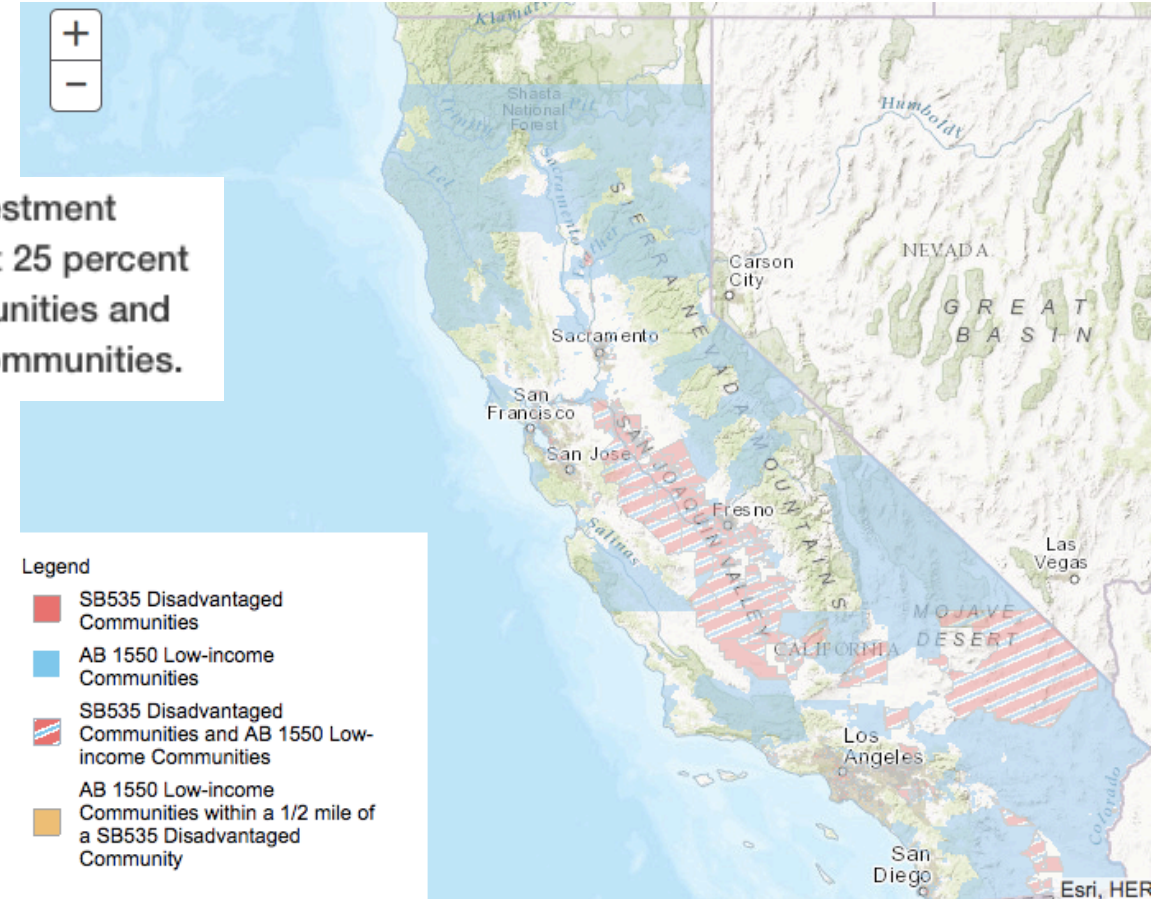
### Socioeconomic Factors

- Educational Attainment
- Housing Burdened Low Income Households
- Linguistic Isolation
- Poverty
- Unemployment



# Disadvantaged Communities: AB 1550

Assembly Bill (AB) 1550 (Gomez, Statutes of 2016) modified the investment minimums to disadvantaged communities. AB 1550 requires at least 25 percent of funds go to projects within and benefitting disadvantaged communities and at least an additional 10 percent is for low-income households or communities.



# AHSC Overview



## AHSC Program Goal

To fund projects that result in:

- the reduction of **greenhouse gas (GHG) emissions and vehicle miles traveled (VMT)** and
- **increased accessibility** of housing, employment centers and key destinations

through low-carbon transportation options such as walking, biking and transit.



# What does it fund?

## Eligible Capital Projects

1. Affordable Housing Development (loan)  
*Bricks and Mortar*
2. Housing-Related Infrastructure (grant)  
*Required as Condition of Approval*
3. Sustainable Transportation Infrastructure (grant)  
*Transit, Bike Lanes, Sidewalks*
4. Transportation-Related Amenities (grant)  
*Bike Parking, Repair Kiosks, Urban Greening, Bus Shelters*

## Eligible Programs (3 Year Grants)

1. Active Transportation Programs
2. Transit Ridership Programs



# Eligible Project Types

<b>TOD</b> Transit Oriented Development	<b>ICP</b> Integrated Connectivity Project	<b>RIPA</b> Rural Innovation Project Area
Required: ✓ High Quality Transit ✓ Affordable Housing	Required: ✓ Qualifying Transit ✓ Sustainable Transportation Infrastructure	Required: ✓ Qualifying Transit ✓ Sustainable Transportation Infrastructure
Required: At least one additional components from the following:  <input type="checkbox"/> Sustainable Transportation Infrastructure <input type="checkbox"/> Transportation Related Amenities <input type="checkbox"/> Programs	Required: At least one additional components from the following:  <input type="checkbox"/> Affordable Housing <input type="checkbox"/> Transportation Related Amenities <input type="checkbox"/> Programs	Required: At least one additional components from the following:  <input type="checkbox"/> Affordable Housing <input type="checkbox"/> Transportation Related Amenities <input type="checkbox"/> Programs
Required Minimum Density: 30 units/acre	Required Minimum Density: 20 units/acre	Required Minimum Density: 15 units/acre





# 455 Fell Street

## TOD Project – City of San Francisco



### Project Details

- 81-85 % DAC (25% of work hours)
- 108 affordable housing units for 30-60% AMI
  - 57 one-bedroom
  - 42 two-bedroom
  - 8 three-bedroom
- 100% Affordable
- Density: 125 units/acre
- 1,700 ft<sup>2</sup> community garden
- Transportation Service: Light Rail & Bus
- Adding landscaped medians, ADA upgrades, travel lane reductions for angled parking, pedestrian bulbouts, and traffic calming
- AHD: \$15,037,563
- STI: \$1,019,000
- **Total Award amount: \$16,059,563**





# Kings Canyon Connectivity Project

## ICP Project – City of Fresno



### Project Details

- 96-100% DAC
- 135 affordable housing units for 30-60% AMI
  - 89 family units
  - 46 senior units
- 100% Affordable
- Workforce training program and construction apprenticeships
- Transportation Service: Bus
- Building important bike and pedestrian infrastructure along several blocks to 2 new BRT stops (July 2017)

AHD: \$14,863,754

HRI: \$47,200

STI: \$513,222

TRA: \$155,250

**Total Award amount: \$15,579,426**



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# Redding Downtown Loop and Affordable Housing

## ICP Project – City of Redding



### Project Details

- Not in a DAC
- 56 affordable housing units for 30-60% AMI
  - 15 one-bedroom
  - 47 two-bedroom
  - 17 three-bedroom
- 70% Affordable
- 2,700 sq. ft. Commercial
- Transportation Service: Bus
- Adding Class IV cycle track and bike lanes, curb extensions, sidewalk construction, bus vouchers
- AHD: \$5,873,372
- HRI: \$3,570,000
- STI: \$8,973,958
- TRA: \$1,582,670
- **Total Award amount: \$20,000,000**



# Lindsay Village

## RIPA Project – City of Lindsay



### Project Details

- 86-90% DAC
- 49 affordable housing units for 30-60% AMI
  - 14 one-bedroom
  - 18 two-bedroom
  - 18 three-bedroom
- 100% Affordable
- Density: 20 units/acre
- 100% Solar PV and grey water recycling
- Transportation Service: Bus
- Vanpool and Public Transit ridership program with sidewalks, bike lanes, traffic calming
- AHD: \$4,043,694
- HRI: \$405,000
- STI: \$1,069,659
- **Total Award amount: \$5,518,353**



# Baking in Collaboration





# AHSC Scoring Criteria

AHSC Scoring Elements and Criteria	
Criteria	Points
<b>GHG Quantification Methodology Scoring</b>	
GHG Efficiency	15
GHG Total	15
<b>Quantitative Policy Scoring</b>	
Active Transportation Improvements	10
Green Buildings and Renewable Energy	10
Housing and Transportation Collaboration	10
Location Efficiency and Access to Destinations	5
Funds Leveraged	5
Programs	3
Anti-Displacement Strategies	5
Local Workforce Development and Hiring Practices	2
Housing Affordability	5
<b>Narrative-Based Policy Scoring</b>	
Collaboration & Planning	6
Community Benefit & Engagement	6
Community Climate Resiliency	3
<b>Total Scoring</b>	<b>100</b>



# AHSC Best Practices

- Leadership Support and Dedication of Time
  - Prioritization from local leadership and management
  - Mobilizing necessary departments
  - Time dedicated to coordination, project management, and application development
- Organizing Around Corridor and/or Transit Line
  - East Bay Corridors (MTC) or Blackstone Corridor (City of Fresno)



# AHSC Best Practices

- Project Management
  - Need a strong project manager, whether that is for the project or the jurisdiction-level coordination
  - Technical Assistance
- Project Components & Trends
  - Housing + Transportation, especially augmenting transit service
  - Greenhouse Gas Quantification Methodology - get familiar 😊
  - Well leveraged projects



# AHSC Application Process

- Final Draft Guidelines are posted on SGC website
- AHSC 2016-2017 Final Draft Guidelines to be considered for adoption by SGC at July 17<sup>th</sup> Council Meeting
- 2017 NOFA and Application Release Date October 2<sup>nd</sup> 2017
- Pre-Application Consultations and Checklist offered in October
- Application Due Date in early January 2018





A stylized illustration of a cityscape in shades of blue, featuring various buildings, trees, a person on a bicycle, and a car.

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# Department of Community Services and Development (CSD) Low-Income Weatherization Program (LIWP)

Funded from the State of California's  
Greenhouse Gas Reduction Fund  
California Climate Investments



# Cap-and-Trade Dollars At Work

## Implementation of LIWP



CSD partners with a network of private, non-profit and public community-based organizations dedicated to helping low-income families and individuals achieve and maintain self-sufficiency and manage their home energy needs. LIWP Appropriations:

- Fiscal Year (FY) 14-15 Budget through FY 16-17 Budget: \$174 M

Initially used to expand CSD's existing weatherization programs and establish two new programs:

- Single Family Solar Photovoltaics (PV) Program (Statewide and Fresno EOC pilot)
- Multi-Family Energy Efficiency and Renewables Program (Statewide administrator), with TA and incentives to property owners (affordable housing) – fully subscribed

Opportunities with new Regional Administrators and Community Solar



# Cap-and-Trade Dollars At Work

## Implementation of LIWP



### Goals:

- To date, 100% of households/buildings served are located in Disadvantaged Communities (DACs) as defined by the California Environmental Protection Agency
- Reduce greenhouse gas (GHG) emissions
- Improve the energy efficiency of low-income housing at no cost to eligible homeowners or renters
- Lower utility costs for low-income families
- Achieve other co-benefits, including workforce development



# LIWP Opportunities in Local Communities



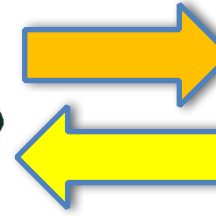
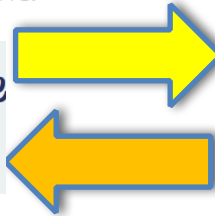
## New Single Family Energy Efficiency and Solar PV Program Model :

- RFP for Regional Administrators (non-profits or government agencies) for service delivery of Energy Efficiency upgrades and renewables in an integrated approach
- Create a program model that has a better economy of scale and is more adaptable and responsive to Investment Plans/funding

## Opportunities for synergies with local efforts

- Workforce Development and Job Creation
- Sustainability/Community Revitalization
- Health and Human Services
- Other Ideas?





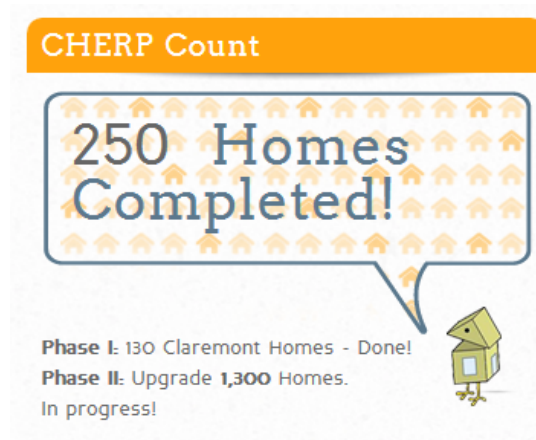
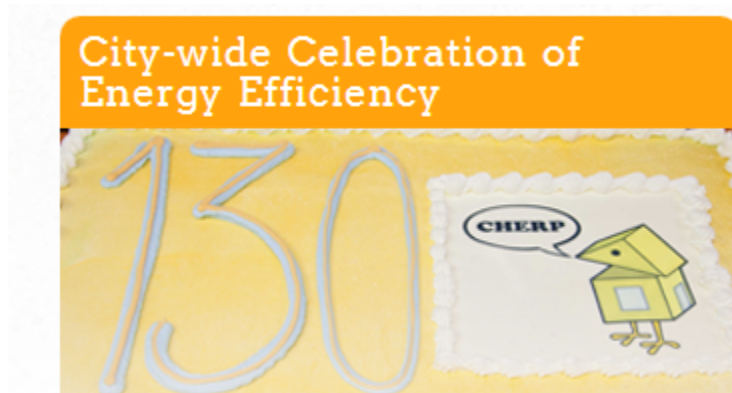


# Sustainability/Community Revitalization



## CHERP (Community Home Energy Retrofit Project)

- A partnership with the City of Claremont, local energy efficiency experts and volunteers.



- 50+ homes for no-cost deep energy and home health retrofits through LIWP Region 4 Administrator (Build It Green)/CHERP remediation

**Orange County:** Cities of Buena Park and Garden Grove Economic Development Departments



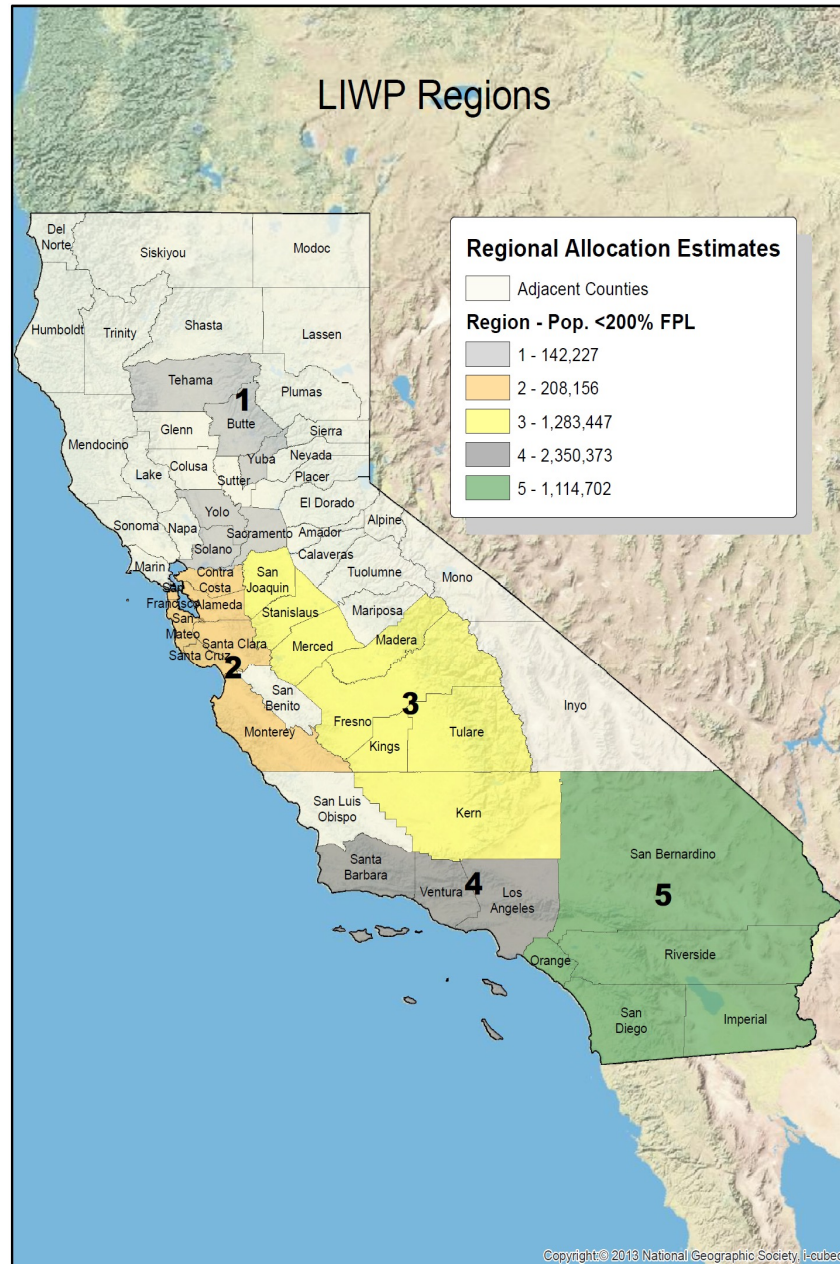
# Health and Human Services Opportunities



- CSD discussions with CDPH Climate Change and Health Equity Program
- Pilot project to involve county health department nurse home visitors to refer families with health conditions that can be worsened by climate change impacts (such as asthma, COPD and cardiovascular disease) to receive home weatherization services to improve their living conditions and health status.
- Involve CDPH Indoor Air Quality Program to possibly conduct some research to validate the benefits, such as monitoring indoor air quality









## Future Initiative: Community Solar Pilot

### Why Community Solar?

#### Cost Effectiveness & Equity:

- A single rooftop PV system can cost up to \$25,000 and reduce one household's electricity bill by up to 90%
- A Community Solar array can be used to reduce the electricity bills of multiple low-income homes by a lower—but still beneficial—percent





# Future Initiative: Community Solar Pilot

## CSD Vision for Community Solar:

- A project that is truly part of the “community”
- Reduces customer electricity costs
- Helps the customers who need it the most
- Requires no additional customer costs or financial barriers (credit scores, credit checks, etc)
- Billing that is easy to understand
- Serves customers who are not qualified for rooftop PV (renters, poor roof quality, etc)
- Provides energy efficiency and energy education





# Future Initiative: Community Solar Pilot

## CSD Vision for Community Solar Pilot Design:

- A model(s) that can be replicated if future funding becomes available
- Quantifiable GHG reduction
- Able to provide electricity at a lower cost per watt than rooftop PV
- Project completion by June 2020
- Bring leveraged dollars to the project
- Ability to target qualified customers with the greatest need (highest electric bills)
- A plan for finding and enrolling qualified customers
- Incorporate workforce development for DAC residents
- Partnerships: Non-profit or local government entity/ utility company/developers/financial institutions



# Future Initiative: Community Solar Pilot



<b>Milestone</b>	<b>Tentative Date</b>
Release of Request for Information (RFI), Community Solar Pilot	July, 2017
Community Meetings	August, 2017
Due Date for RFI responses	August, 2017
Release of Notice of Funding Availability	September, 2017
Funding Applications Due	October, 2017
Selection of Awardees and TA	November, 2017



# Contacts



Email: [glen.baird@csd.ca.gov](mailto:glen.baird@csd.ca.gov)

LIWP Website:

<http://www.csd.ca.gov/LIWP.aspx> - sign up for alerts

CalEnviroScreen 2.0 mapping tool:

<http://oehha.maps.arcgis.com/apps/Viewer/index.html?appid=dae2fb1e42674c12a04a2b302a080598>

Multi-Family Energy Efficiency & Renewables Program

[www.camultifamilyenergyefficiency.org](http://www.camultifamilyenergyefficiency.org)



# MOVING CALIFORNIA

*cleaner transportation for all communities*



**Ambreen Afshan**  
*Disadvantaged Communities Liaison*

**California Air Resources Board**  
**Fresno, California**  
**June 14, 2017**

California Environmental Protection Agency  
 **Air Resources Board**



# LOW CARBON TRANSPORTATION INVESTMENTS

- Funding provided by California Climate Investments
- ARB funding to support advanced technology clean transportation
- \$325 million invested to date
- Projects cover nearly all means of transportation





# **FY 2016-17 Funding Allocations (\$363 million)**

- \$363 Million appropriated and in a process of being awarded
- To accelerate transition to low carbon freight and passenger transportation
  - ~ 59% (\$213 million) to light duty vehicle investments (CVRP, Equity Projects)
  - ~ 41% (\$150 million) Heavy-duty vehicles and off-road equipment
- Special considerations for Disadvantaged and Lower-Income Consumers

# FY 2016-17 Funding Allocations (\$363 million)

## Final Project Allocations

Project Category	Allocation (millions)
<b>Low Carbon Transportation Light-Duty Vehicles Investments (SB 1275)</b>	
Clean Vehicle Rebate Project (CVRP)	\$133
Car Scrap and Replace (EFMP and EFMP Plus-up)	\$60
Other Light-Duty Equity Pilot Projects	
Car Sharing and Mobility Options	\$8
Increased Public Fleet Incentives for CVRP-Eligible Vehicles	\$3
Agricultural Worker Vanpools in San Joaquin Valley	\$3
Financing Assistance for Lower-Income Consumers	\$6
<b>Light-Duty Vehicle Investment Total</b>	<b>\$213</b>
<b>Low Carbon Transportation Heavy-Duty Vehicles and Off-Road Equipment Investments (SB 1204)</b>	
Advanced Technology Demonstration Projects	\$34
Zero-Emission Freight Equipment Pilot Commercial Deployment	\$5
Zero-Emission Truck Pilot Commercial Deployment Project	\$18
Zero-Emission Bus Pilot Commercial Deployment Project	\$42
Rural School Bus Pilot Project	\$10
Low NOx Engine Incentives with Renewable Fuel	\$23
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$18
<b>Heavy-Duty Vehicle and Off-Road Equipment Investment Total</b>	<b>\$150</b>
<b>LOW CARBON TRANSPORTATION TOTAL</b>	<b>\$363</b>

# Programs for Individuals and Families (Light-duty Investments)

- Clean Car Rebates (CVRP) \$133 million
- Car Scrap and Replace (EFMP and Plus-Up) \$60 million
- Car Sharing and Mobility Options \$8 million
- Financing Assistance \$6 million
- Agricultural Worker Vanpools \$3 million



# Car Sharing and Mobility Options (\$8M)

- Sacramento Metropolitan Air Quality Management District (\$1.4 million)
  - Our Community Car Share
  - 8 Electric cars and charging stations
  - Serves 2,000 residents
- City of Los Angeles “Los Angeles Leading By Design” (1.7million)
  - BlueLA Electric Car Sharing Program
  - Nation’s largest electric car sharing program in disadvantaged communities
  - 100 electric cars, 200 EV charging stations
  - Westlake, Pico Union, Echo park, Downtown



# Heavy-Duty and Off-Road Investments

- Transformation of the on-road and off-road fleet to clean technologies
- Demonstration of new technologies & advancing commercial viability through pilots
- All demonstration projects will either be located in or will benefit disadvantaged communities.



# **Heavy-Duty and Off-Road Investments**

- **Clean Urban Transit Buses**
- **Clean School Buses**
- **Clean Delivery Trucks**
- **Clean Drayage Trucks**
- **Clean Trucks at Railyards and Freight Distribution Centers**
- **Multiple Clean Technologies used in Goods Movement**



# Heavy-Duty and Off-Road Investments

## Hybrid and Zero Emission Truck and Bus and Bus Voucher Incentive Program (HVIP)

- Statewide program provides vouchers to help offset the higher costs of clean vehicles
- zero-emission trucks and buses
  - up to \$95,000
- hybrid trucks and buses
  - up to \$30,000.



# Heavy-Duty and Off-Road Investments

- Zero-Emission Pilot Projects
  - Freight Equipment
  - Trucks and Buses
- Advanced Technology Freight Demonstration Projects
  - On-Road Trucks
  - Off-Road Equipment



# **Heavy-Duty and Off-Road Investments**

## **San Joaquin Valley Transit Electrification Project - \$13.4 million**

- 15 Proterra battery electric buses
- 11 depot charging stations including 4 fast chargers
- Fresno, Stockton, Modesto, and Visalia

# **Heavy-Duty and Off-Road Investments**

## **City of Porterville Transit Electrification Project - \$9.5 million**

- 10 GreenPower, 40-foot zero-emission all electric transit buses with depot charging**
- Serve nine of the Porterville routes in DACs**
- East Porterville, Strathmore & Tule River Indian Reservations**
- Early 2018**

# **Heavy-Duty and Off-Road Investments**

## **SunLine Transit Agency Fuel Cell Bus Deployment - \$12.6 million**

- 5 New Flyer fuel cell buses
- Upgrades to existing hydrogen fueling
- Onsite renewable generation
- Operated on two routes daily from Indio to Mecca/Oasis
- The first bus is expected in early 2018.

# **Heavy-Duty and Off-Road Investments**

## **Center for Transportation and the Environment**

### **Fuel Cell Bus Project - \$22.3 million**

- 20 fuel cell electric buses
- Alameda-Contra Costa Transit District (25 routes) in the Bay Area
- Orange County Transportation Authority (5 routes) in Southern California
- Spring 2018



# Contact Information

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