

The Future is Electric: Plug In and Get There!

San Juan Capistrano | November 17 | 10:30 a.m. – 1:00 p.m.

Introduction Colin Santulli, California Center for Sustainable Energy

Introduce the topics, speakers and describe the format of the workshop

Larry Kramer, Mayor of San Juan Capistrano **Opening Remarks**

PEV 101 and Benefits Colin Santulli, CCSE

Basics of PEVs including environmental, public health and economic benefits

April Buldoc, San Diego Gas & Electric (SDG&E) PEV Impact to Grid and Utility Bills

SDG&E's PEV programs including grid reliability, rate programs and how SDG&E can help customers prepare their homes for PEV fueling

State & Federal PEV Incentives Colin Santulli. CCSE

Emphasis on the state rebate application process, project funding and frequently asked questions

Lunch and PEV Drivers Panel

Enjoy lunch and hear about the PEV experience from your neighbors











Energy Efficiency





Renewable Energy





Green Building

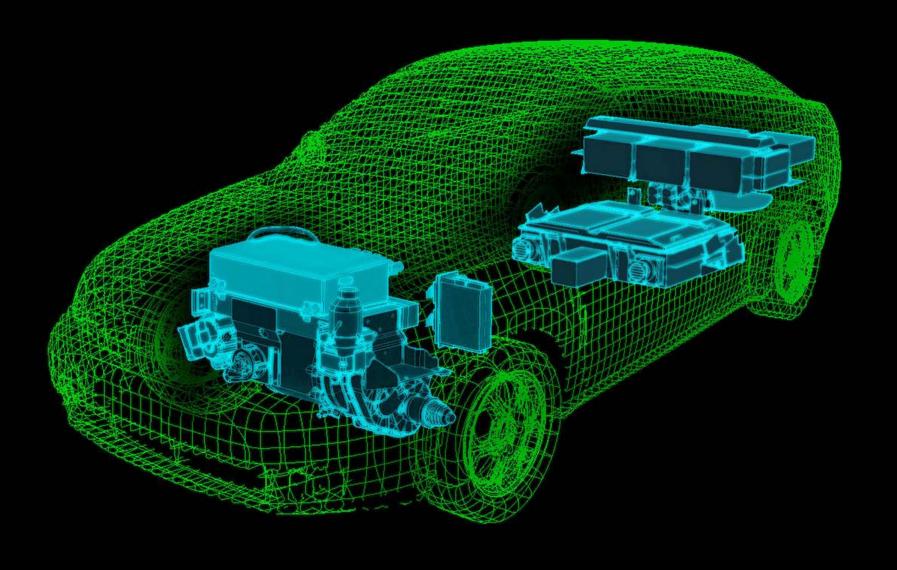


Climate Change



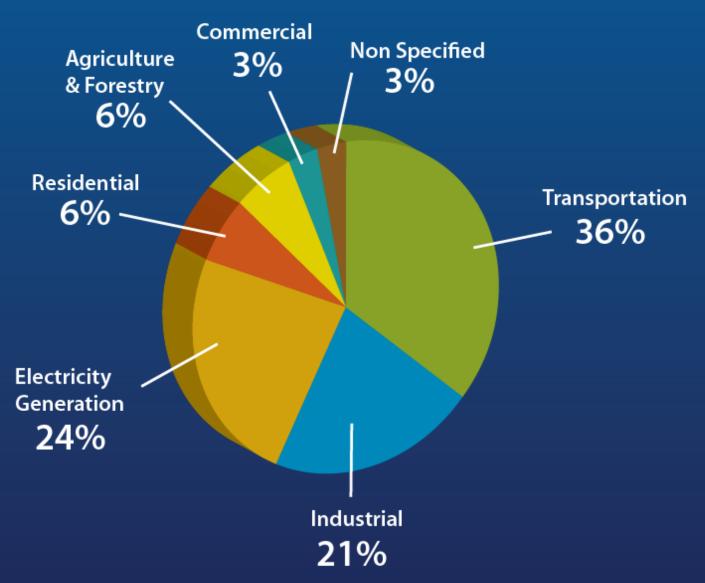
Clean Vehicle Rebate Project (ARB & CEC)





Plug-In Electric Vehicle Battery Research (CEC & NREL)

CALIFORNIA GREENHOUSE GAS EMISSIONS





Environmental



- Plug-in electric vehicles
 - ✓ Zero Tail Pipe Emissions
- CA grid cleanest in nation
 - ✓ 33% renewable by 2020
- Off peak charging
 - ✓ Lower carbon intensity → generation



Public Health



In 2008, pollution from diesel and gasoline vehicles resulted in:

- √ 9,000 premature deaths
- √ 7,700 hospitalizations
- √ 1,400,000 lost workdays
- √ 4,700,000 school absences



Economic

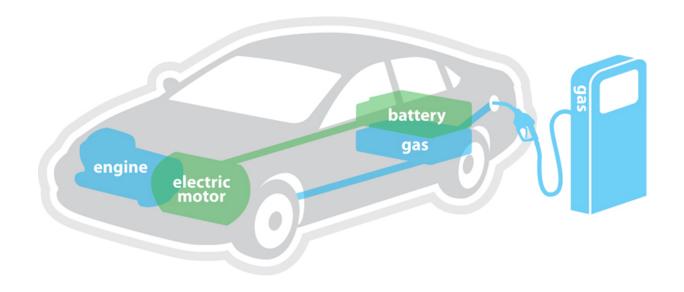


- Volatile Gas Prices
 - ✓ Reduce dependence on the pump
- Lower Fueling Costs
 - ✓ Off peak charging Time-Of-Use rates
- Lower Maintenance Costs
 - ✓ No more oil changes, reduced tune ups



Plug-In Electric Vehicle 101

Hybrid Electric Vehicle

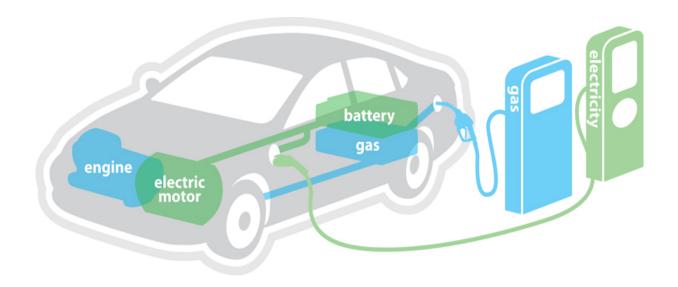


A vehicle that combines an internal combustion engine with a battery and electric motor.



Plug-In Electric Vehicle 101

Plug-In Hybrid Electric Vehicle (PHEV)



Hybrid vehicles that can plug in to the grid so they can operate on electricity as well as an internal combustion engine.



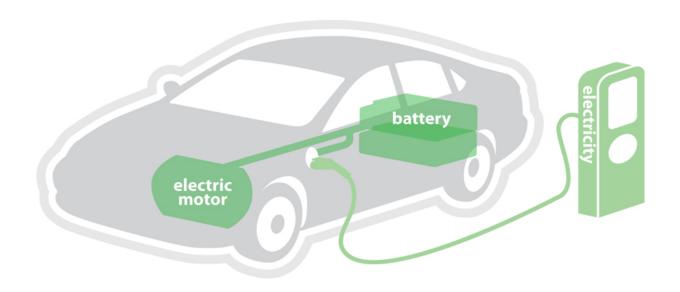






Plug-In Electric Vehicle 101

Battery Electric Vehicle (BEV)



A vehicle that runs on electricity stored in batteries and has an electric motor rather than an internal combustion engine.











www.energycenter.org/cvrp







Universal Plug/Port





J-1772 The universal plug/port



SAE Approved

Universal plug for all new PEVS - can charge anywhere



Technology to communicate with smart chargers

Designed for eventual vehicle-to-grid (V2G)



EVSE-Your new fueling station







Level 1

• 120 V,15-20 A

• ≈ 5 miles/hour of charge

Level 2

· 240 V, 40 A

 \approx 10-15 miles/hour of charge

DC Fast Charge

• 480 V, 100 A

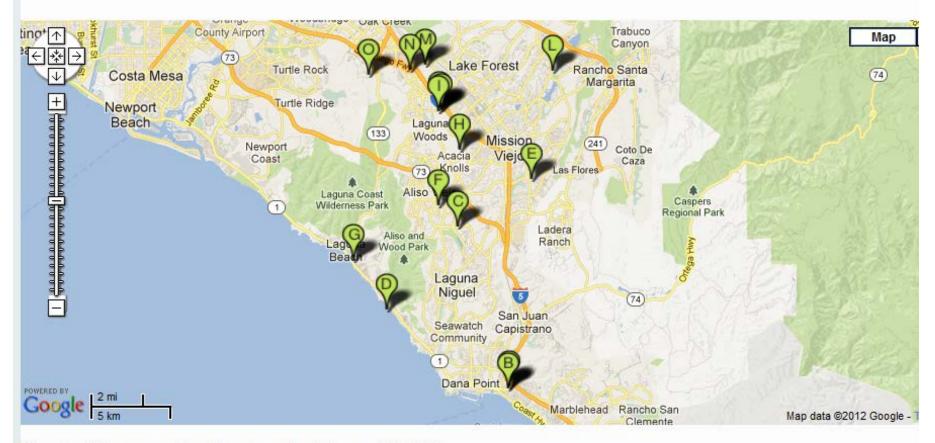
• ≈ 80 miles in 30 min (24kWh



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San Juan Capistrano

Chargers: all



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Plug-In Electric Vehicle Incentives

Colin Santulli

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(858) 244-1195

www.energycenter.org/cvrp



Outline

- State Rebate Clean Vehicle Rebate Project (CVRP)
 - Program Funding
 - Program Eligibility
 - Application Process
- Additional Vehicle Incentives
 - Federal Tax Credits
 - HOV Stickers









- Funded through the California Air Resources Board (ARB) and the California Energy Commission (CEC) through 2015
- Funded by vessel registration, vehicle registration and smog abatement fees



California Environmental Protection Agency







FY 2009-2010

• \$4.1 million from ARB

FY 2010-2011

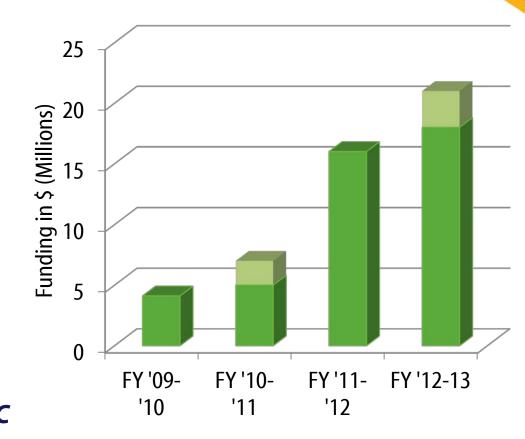
- \$5 million from ARB
- \$2 million from CEC

FY 2011-2012

\$16 million from ARB

FY 2012-2013

- \$18 million from ARB
- Up to \$3 million from CEC



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CVRP RESOURCES

- La CVRP Rebate Map
- 🚨 Implementation Manual
- Belectric Vehicles 101
- A High Performance

Home for your EV

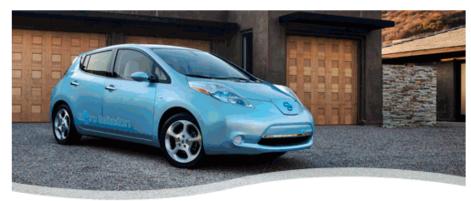




Plug In and Get There



Home → Incentives Programs → Clean Vehicle Rebate Project





The Clean Vehicle Rebate Project (CVRP) is funded by the California Environmental Protection Agency's Air Resources Board (ARB) and administered statewide by the California Center for Sustainable Energy (CCSE). A total of \$45.2 million has been appropriated for FY 2009-2013 to promote the production and use of zero-emission vehicles (ZEV), including electric, plug-in hybrid electric, and fuel cell vehicles. Rebates of up to \$2,500 per light-duty vehicle are available for individuals and business owners who purchase or lease new eligible zero-emission or plug-in hybrid electric vehicles.

Of this \$45.2 million, \$2 million was provided by the California Energy Commission on May 26, 2011. Funding from the Energy Commission is specifically dedicated to light-duty <u>ZEVs</u> capable of freeway operation and certified for four or more passengers. Click here to read a press release which provides more information about this funding announcement.

Estimated Remaining CVRP Funding \$ 10,912,979

CCSE

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ADDITIONAL INCENTIVES



Find rebates, discounts, tax breaks and other incentives available in your area.

CVRP News

16 Oct

Rebates Fund 10,000 Clean Cars

26 Sep

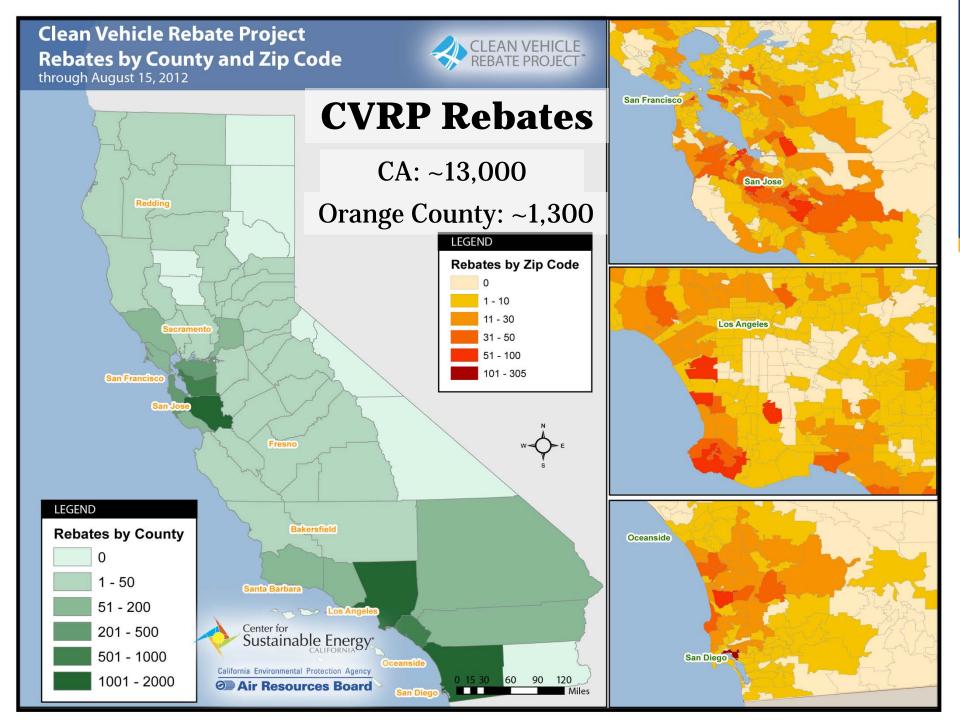
CCSE Hosts National Plug-In Day 2012

16 Aug

24 Month Lease Terms NOT ELIGIBLE for CVRP

more news >>

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Program Eligibility – Who and How



Individual, business, nonprofit or government entity based in California or has a California based affiliate



Purchase or Lease a **NEW** eligible vehicle



Vehicle must be 2010 model or NEWER



MUST own/lease for a MINIMUM of 36 CONSECUTIVE MONTHS



MUST be registered with the California DMV for a MINIMUM of 36 CONSECUTIVE MONTHS



Program Eligibility – Vehicles



Light-Duty Zero Emission Vehicles \$1,500-\$2,500 ←

Variation based on vehicle range



Plug-in Hybrid Electric Vehicles \$1,500



Neighborhood Electric Vehicles \$900



Zero Emissions Motorcycles \$900



How do I apply?

Step 1

- Go to www.energycenter.org/cvrp
- Select vehicle and complete online application

Step 2

 Mail in signed application and supporting documents within 14 calendar days

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Home for your EV





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> Estimated Remaining CVRP Funding \$ 10,912,979 (read more...)

Interested in applying for a rebate? Follow these three easy steps:



CCSE Sustainable-Energy

Like 2,009





Find rebates, discounts, tax breaks and other incentives available in your area.

CVRP News

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more news >>

PHEV	Chevy Volt APPLY NOW	Chevy Volt 2012 - Low Emission Package (Low Emissions Package will have an E, F, G or H In the 5th position of the VIN)	\$1,500
	Toyota Prius Plug-In	Toyota Prius Plug-In Hybrid 2012	\$1,500
	EVI APPLY NOW	EVI 2010/2011 eMega	\$900

rams/clean-vehicle-rebate-project/phev-toyota-requirements

Clean Vehicle Rebate Project

Applicant Requirements and Qualifying Vehicle Information

Applicants must agree to meet all the requirements as specified in the CVRP implementation Manual as part of the rebate application. It is the responsibility of the applicant to review the CVRP implementation Manual prior to applying for a rebate.

Eligible Applicants must meet requirements that include, but are not limited to, the following:

- 1. Be an individual, business, nonprofit or government entity that is based in California or has a California based-affiliate as specified in Section 3.3 of the CVRP implementation Manual.
- 2. Be a purchaser or lessee of a new Zero-Emission Vehicle (ZEV) or Plug-in Hybrid Electric Vehicle (PHEV) as specified in Sections 2.2 and 2.3 of the CVRP implementation Manual.
- 3. Be a purchaser or lessee of a new eliqible vehicle after the official start date of the Clean Vehicle Rebate Project, March 15, 2010, and prior to exhaustion of available rebate funds.
- 4. Purchase or lease an eligible vehicle before applying for a rebate as specified in Section 2.1 and 2.7 in the CVRP implementation Manual.
- Retain ownership of the vehicle for a minimum of 36 consecutive months* immediately after the vehicle purchase or lease date. Rebate recipients who do not retain the eligible vehicle for the full 36-month ownership or lease period will be required to reimburse ARB all or part of the original rebate amount.
- Register the new vehicle with the California Department of Motor Vehicles (DMV) for a minimum of 36 consecutive months* for use in California. Any government owned vehicle not
 registered with the California DMV is still required to operate within California for 36 consecutive months immediately after the vehicle purchase or lease date.

*Note: ARB will be periodically checking vehicle identification numbers with vehicle registrations to ensure that <u>CVRP</u> applicants meet this requirement. If an applicant breaks this requirement, <u>ARB</u> or its designee reserves the right to recoup <u>CVRP</u> funds from the original vehicle purchaser identified on the rebate form and may pursue other remedies available under the law

To qualify for a rebate, vehicles must meet the following requirements:

- The vehicle must be new as defined in the California Vehicle Code (CVC) section 430 and must be manufactured by the Original Equipment Manufacturer (OEM) or its authorized licensee.
 Vehicles considered new vehicles solely for determination of compliance with state emissions standards are not eliqible.
- 2. The vehicle must be on the List of Eligible Vehicles (available at www. CVRPenergycenter.org) on the date of purchase or lease.
- Zero-Emission Motorcycles (<u>ZEMs</u>) and Neighborhood Electric Vehicles (<u>NEVs</u>) must be equipped with sealed, maintenance-free batteries and meet the warranty requirements as described in Sections 2.3.3 and 2.3.4 of the CVRP implementation Manual.

Rebates will be distributed on a strict first-come, first-served basis and issued to qualified recipients in a single allotment. Rebates will be issued no later than 60 days following receipt and verification of documentation.

Rebate funds will be immediately reserved by the Project Administrator upon receipt of a completed application. Required supporting documentation must be mailed within 14 calendar days (by U.S. mail postmark) after a completed application is received. If applicants do not submit the required documentation within that time frame, the funds will be released back to the project and a new application will need to be submitted.

Required supporting documentation will include, at a minimum, the following:

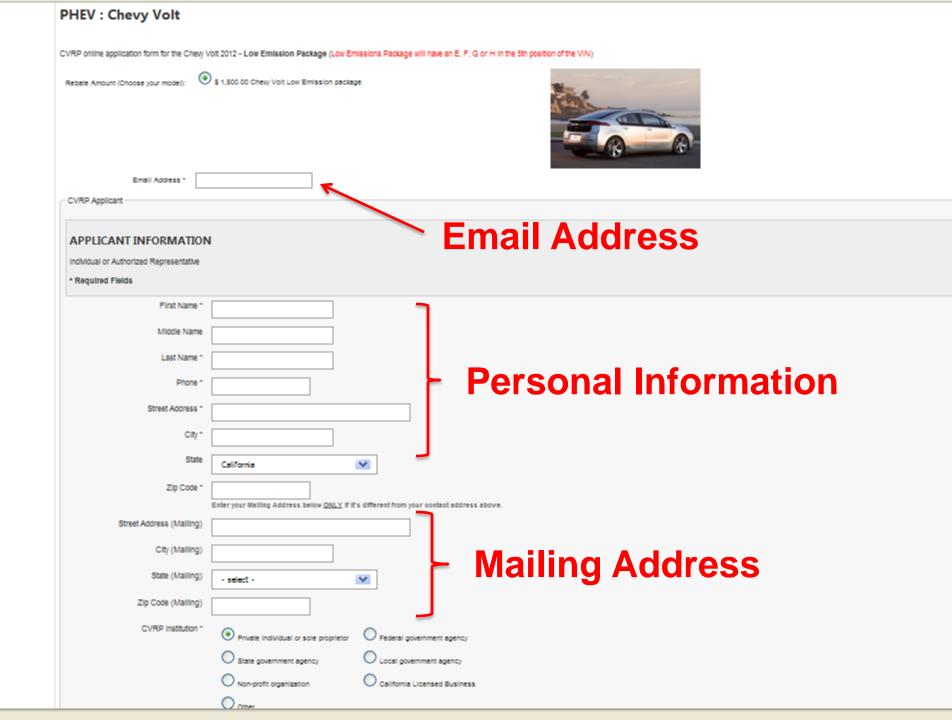
- . A printed copy of the submitted application signed by the vehicle purchaser, lessee or authorized representative.
- · Proof of temporary or permanent vehicle registration.
- A copy of the sales or lease contract signed by all parties with an itemization of credits, discounts and incentives received, if applicable.
- For individuals, a copy of a utility or cable bill from within the last 3 months or other valid proof of California residency as approved by the California Center for Sustainable Energy. Other forms
 of valid proof include a signed, dated and notarized rental agreement or a copy of a current vehicle DMV registration. A California driver license is not an acceptable proof of residency.
- For a business or nonprofit, a copy of the formation document flied with the California Secretary of State or other documentation as approved by the California Center for Sustainable Energy.
 Sole proprietors may submit a copy of a utility or cable bill from within the last 3 months, a current vehicle DMV registration or a notarized rental agreement.
- For ZEMs and NEVs, as identified on the vehicle eligibility list, evidence of sealed maintenance-free batteries and a 24-month warranty.

Resale of a vehicle or return to a dealer is allowed within this 36-month period if necessitated by unforeseen or unavoidable circumstances and has been given prior approval by the wide. However resale of a CVRP vehicle for financial gain within 36 months is not allowed. In these cases, ARB or its designee reserves the right to recoup CVRP funds from the original vehicle purchaser identified on the rebate form and may pursue other remedies available under the law.

Mailing Instructions

To ensure delivery of application materials, please use certified mail or priority mail with delivery confirmation.





If Other Explain	
Current solar system owner?	- select - 💙
CVRP Vehicle	
VEHICLE AND OV	VNER (LESSEE) INFORMATION
Name of Vehicle Owner / Lessee (as it appears on the vehicle title) *	── Vehicle Owners Name
Date of purchase or date on which lease commences * Lease Term in Months (if applicable)	Click on loon or enter manually with format (milddyyw (i.e. 12/31/2010) Date of Purchase/Lease
Vehicle Year * Vehicle Identification Number (VIN) *	Vehicle Information
Dealer Contact Person Dealer Contact Title	- Dealer Information
Dealer Phone *	
Continue >>	

CCSE CALENDAR



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Supporting Documents



Proof of temporary or permanent vehicle registration



Copy of the sale or lease count is new yor pages

Itemized st of coldits, discount in not tive regions.



<u>Individuals</u>: Proof of California Residency - **Utility or cable bill** from within the last 3 months or a notarized rental agreement.

NOTE: California driver license is **not** an acceptable proof of residency



<u>Business/Nonprofits</u>: Copy of formation document filed with the CA Secretary of State. Sole proprietors may submit a copy of a utility or cable bill from within the last 3 months, or a current vehicle DMV registration or notarized rental agreement.



Other Incentives – Electric Vehicle Tax Credit

- BEV/PHEV tax credits range from \$2,500 to \$7,500
- Based on battery capacity:
 - Minimum of 4 kWh (\$2,500)
 - In excess of 5 kWh additional \$417 per kWh
 - Nissan LEAF 24 kWh battery capacity (\$7,500)
 - **Chevrolet Volt** 16 kWh battery capacity (\$7,500)
 - **Toyota Plug-In Prius** 4.4kWh battery capacity (\$2,500)
- Phase out per manufacturer after 200K EV/PHEV



Other Incentives – HOV Stickers

 White Clean Air Vehicle Stickers are available to an unlimited number of qualifying Federal Inherently Low Emission Vehicles (ILEVs). Expires Jan 2015.



 Green Clean Air Vehicle Stickers available to first 40,000 applicants that purchase or lease cars that meet CA enhanced advanced technology partial zero emission vehicle (AT PZEV) requirements. Expires Jan 2015.



http://www.arb.ca.gov/msprog/carpool/carpool.htm



Questions?

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