

California is leading the nation in Plug-in Electric Vehicle (PEV) sales today, with dozens of new plug-in models coming to market. PEVs benefit local communities by bringing jobs, healthy air, a reduced carbon footprint, quieter streets, incentive funding and opportunities for leadership.

KEY MESSAGES

PEV Ready Communities Take Action

- Streamline construction permitting and inspection processes for PEV charging installation; train permitting staff and building officials.
- Offer first responder training to police and fire personnel.
- Update building codes, zoning and parking rules to be PEV ready.
- Address PEV charging needs in apartments and condos.
- Create a plan to deploy public charging and participate in regional infrastructure planning.
- Encourage local employers to offer customer and workplace charging.
- Utilize the resources of the local electric utility to promote PEV education and training.
- Communicate what's being done to be PEV ready, why it's good for the community, and quality of life benefits.

Leadership "Walks the Talk"

- Identify a PEV champion in your organization or community to guide the process of becoming PEV Ready.
- Purchase and drive a PEV and install workplace and public charging.
- Establish incentives for home and commercial charging, as well as preferential PEV parking. Encourage green businesses.

"It Takes a Village" to Become PEV Ready: Stakeholders and Roles



PEV Drivers
Encourage PEV
Ready communities



Electric Utilities
Offer special rates for
PEVs. Advice on best
rate options. Grid reliability



Automakers
Roll out and
market PEVs



Employers
Encourage employees
to drive PEVs. Offer
workplace charging



State Government
Regulations, policies,
guidance, incentives to
spur PEV market.
Resources to local
governments



**Electric Vehicle
Supply Equipment
(EVSE) Manufacturers**
Offer charging solutions



**Residential Property
Managers**
Respond promptly and
positively to PEV charging
requests. Develop strategy
to include PEV charging in
Multi-unit Dwellings



**Local & Regional
Governments**
Lead by example.
Adopt a PEV
Readiness Plan



Fleets
Purchase PEVs.
Support PEV car
sharing, rentals,
loans



**Environmental
Advocates**
Advocate for PEVs.
Scientific studies on
health impacts of air
pollution



Source: California PEV Collaborative (CG5-1)

CALIFORNIA LOCAL LEADERSHIP

SAN FRANCISCO



- Comprehensive plan to upgrade, and expand, hundreds of public charging sites.
- Innovative solutions for curbside charging and charging at Multi-unit Dwellings.
- Battery switching demonstration program with PEV taxicab fleet.
- City Department Workshops to encourage city-wide PEV adoption.

LOS ANGELES



- Goal: 7-day permitting, inspection and approval process for home PEV charging installations. Moved permitting online.
- Incentives of up to \$2,000 per household for charging installation.
- Free PEV parking at Los Angeles International Airport.
- Building code amendments to require PEV charging in new construction.

SAN DIEGO



- U.S. D.O.E. EV Project award – ECOtality, Nissan, and SDG&E partnership will place hundreds of public access stations, including some DC Fast Charging.
- First all-electric car sharing program in North America.
- Smart City San Diego consortium will foster greater PEV public charging.
- SDG&E leadership in Multi-unit Dwelling charging outreach, options.

SONOMA



- Adopted PEV Charging Station Program and Installation Guidelines, 2011.
- Installed over 40 public and fleet PEV charging stations; aiming for total of 130 stations in 2012.
- Obtained funding for over 30 PEVs and chargers.
- PEVs, along with hybrid electric vehicles, comprise 30% of County's fleet.

CORONA

- Offers incentives to residents who purchase PEVs.

HERMOSA BEACH & SANTA MONICA

- Free metered parking for PEVs.

RIVERSIDE

- Municipal buy-down program for PEV and other alternative fuel vehicles (AFVs).
- 80+% of the municipal fleet are PEVs or AFVs.

SACRAMENTO

- Free parking for Battery Electric Vehicles (BEVs) in City parking lots.

SAN JOSE

- Moved permitting on-line.
- Free metered parking for PEVs.

SANTA CLARA

- Moved permitting on-line.
- Reduced permit fees for charging installations.

SOUTH PASADENA

- Policies in place to require fleet vehicle replacements be PEVs and alternative fuel vehicles.

ELECTRIC UTILITIES

- Offer lower off-peak rates for charging PEVs. Some offer training for EVSE installers.

Source: California PEV Collaborative (CG5-2).

See Resources section for (i) examples of Alliances, Collaboratives, and other PEV Readiness groups in operation throughout California, and (ii) guides, planning documents, local and regional plans for PEV Readiness.

PLUG-IN ELECTRIC VEHICLE COMMUNITY READINESS PLAN



- 1: IDENTIFY A PLUG-IN ELECTRIC VEHICLE (PEV) CHAMPION, SUCH AS THE MAYOR, CITY MANAGER OR OTHER LOCAL COMMUNITY LEADER.
- 2: FORM AN ALLIANCE, COLLABORATIVE OR COALITION THAT INCLUDES AS MANY STAKEHOLDER REPRESENTATIVES AS POSSIBLE.
- 3: DEVELOP A PEV READINESS ACTION PLAN. SPELL OUT THE BENEFITS OF BEING PEV READY FOR COMMUNITY HEALTH, AIR QUALITY, GREENHOUSE GAS REDUCTION AND ECONOMIC DEVELOPMENT.
- 4: EVALUATE AND REVISE LOCAL PERMITTING AND INSPECTION PRACTICES TO BE PLUG-IN FRIENDLY. PROVIDE TRAINING FOR BUILDING INSPECTORS AS WELL AS FIRST RESPONDERS.
- 5: REVISE LOCAL BUILDING CODES FOR RESIDENTIAL AND COMMERCIAL CONSTRUCTION TO INCLUDE CHARGING CIRCUITS. CONSIDER MAKING THIS MANDATORY IN NEW CONSTRUCTION.
- 6: CREATE POLICIES FOR CHARGING IN PUBLIC PARKING LOTS AND RIGHTS OF WAY. ENCOURAGE LOCAL EMPLOYERS AND COMMERCIAL BUSINESSES TO INSTALL WORKPLACE OR PUBLIC CHARGING.
- 7: ADOPT A POLICY TO GREEN LOCAL GOVERNMENT FLEETS AND ENCOURAGE EMPLOYERS TO PURCHASE PEVS.
- 8: IMPLEMENT LOCAL INCENTIVES SUCH AS PUBLIC CHARGING AND REDUCED PERMIT FEES FOR CHARGING INSTALLATIONS.
- 9: COORDINATE WITH LOCAL UTILITY TO UTILIZE THEIR EXPERTISE AND EDUCATIONAL RESOURCES.
- 10: APPLY FOR GRANT OPPORTUNITIES TO BRING MONEY AND JOBS TO THE LOCAL ECONOMY.








RESOURCES






Coalitions, Collaboratives, and PEV Readiness Groups

-  Bay Area PEV Communities Alliance
www.baclimate.org
-  Business Council on Climate Change
www.bc3sfbay.org
-  Ecology Action
www.ecoact.org
-  Western Regional Council of Governments
www.wrcog.cog.ca.us

California Guides, Planning Documents, Local and Regional Plans for PEV Readiness

-  California PEV Collaborative, Taking Charge, 2010
www.PEVCollaborative.org
-  Development of Guiding Principles-Report on Preliminary Plans for the Siting and Placement of Publicly-Accessible Electric Vehicle Charging Stations throughout Marin County
www.tam.ca.gov/Modules/Show/Document.aspx?documentid=4020
-  Electrify Your Business, Moving Forward with Electric Vehicles: A Bay Area Business Guide
www.bc3sfbay.org/ev-guide-for-businesses.html
-  Ready, Set, Charge: A Guide to EV-Ready Communities, Association of Bay Area Governments, Bay Area Climate Collaborative, Clean Fuel Connection, EV Communities Alliance, LightMoves Consulting
www.ReadySetCharge.org www.baclimate.org/impact/evguidelines.html
-  Sonoma County Electric Vehicle Charging Station Program and Installation Guidelines. July 2011
www.sonoma-county.org/prmd/docs/misc/ev_prog_guidelines.pdf

Electric Utilities: Expert Resource for Getting PEV Ready

-  Los Angeles Department of Water and Power (LADWP): www.ladwp.com/ladwp/cms/ladwp000801.jsp
-  Pacific Gas and Electric Company (PG&E): www.pge.com/electricvehicles
-  Sacramento Municipal Utility District (SMUD): www.smud.org/en/residential/environment/plug-in-electric-vehicles
Installing public, residential and fleet charging in Sacramento; Assist cities establish consistent permitting and inspection procedures.
-  San Diego Gas & Electric Company (SDG&E): www.sdge.com/ev
Expert outreach on multi-unit dwellings, offering practical tools to assist tenants, home-owner's associations, property managers, and property management companies work with PEV drivers (residing in multi-unit complexes) install PEV charging; hosts workshops for multi-unit and workplace charging stakeholders; Contractor and Inspector training and forums.
-  Southern California Edison (SCE): www.sce.com/info/electric-car/residential/residential.htm
PEV calculator to help potential buyers evaluate fuel cost savings and overall electricity cost impact of switching to a PEV; Training for EVSE installers and car dealers.

ADDITIONAL RESOURCES

-  California Energy Commission
www.energy.ca.gov/drive/index.html
-  California PEV Resource Center
www.DriveClean.ca.gov/PEV
-  Electric Drive Transportation Association (EDTA)
www.GoElectricDrive.com
-  Plug In America - We Drive Change
www.pluginamerica.org
-  Plug-In Hybrid & Electric Vehicles - News
www.PluginCars.com
-  Smart City San Diego
www.SmartCitySD.org