



ELECTRIC VEHICLE READINESS

Transportation Services
February 27, 2018

Zero Emission Vehicle Executive Order (Jan. 2018)

Governor Brown signed an Executive order to implement a new aggressive target of 5 million electric vehicles on the road in California by 2030...emphasizing the expansion of both EV production and infrastructure.

Legislation and Local Support for Transportation Electrification

- **AB 1083 – Transportation Electrification-
electric vehicle charging infrastructure:
state parks and beaches (2017)**
- **AB 1236 – Permit Streamlining (2015)**
- **California Building Officials** created a
template to expedite code adoption.
- **California Energy Commission (CEC)-
Consultant's Report for the City of
Richmond Electric Vehicle Action Plan**
- **Richmond General Plan and Climate Action
Plan**

Industry Recommendations for Electric Vehicle Readiness

1. **Permit Streamlining**
2. **Demand**
3. **Infrastructure**
4. **Owners/Drivers**
5. **Behaviors**
6. **Policies**
7. **Planning & Monitoring**



Demonstration Partnerships

A “Demonstration Partnership” refers to an agreement between the City and businesses, nonprofit organizations, and/or other governmental agencies to test, evaluate and/or demonstrate innovative solutions utilizing City land, parking lots, facilities, equipment, right of ways, and City data.

Demonstration Partnership Categories

Category	Example
Pilot Project	New IT application (Boston)
Demonstration/Testing	Smart City solution (San Jose)
Joint or Mutual Development Opportunities	Public lot leases for charging stations (Ukiah and Sacramento)

Anticipated Benefits of Policy Adoption

- Clear expectations
- Community benefits
- Streamlining
- Feedback loops

Potential Partnerships for Richmond?

Mobile Solar Charging Arcs EV ARC™

Combining electric vehicle (EV) charging stations with solar photovoltaic systems to lower both electric and petroleum bills while supporting zero-emission vehicles and energy systems.



EASY MILE -EZ10 Driverless Shuttle

o Autonomous Vehicle Testing

Public Electric Vehicle Charging Stations

Sacramento



Ukiah



Recommended Action

- RECEIVE a presentation concerning policies to promote electric vehicle readiness;
- PROVIDE direction to staff regarding electric vehicle charging station installation within recreational parking lots; and to develop a framework for establishing opportunities to engage in demonstration partnerships.

References

Governor Brown's Action to Increase Zero Emission Vehicles <https://www.gov.ca.gov/2018/01/26/governor-brown-takes-action-to-increase-zero-emission-vehicles-fund-new-climate-investments/>

Assembly Bill 1745

<https://a19.asmdc.org/press-releases/20180103-assemblymember-ting-introduces-clean-cars-2040>

Assembly Bill 1236 http://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=GOV§ionNum=65850.7

California Building Officials AB 1236 Ordinance Template

<http://cms.capitoltechsolutions.com/ClientData/CALBO/uploads/AB1236ModelOrdinanceTechnicalSmallJurisdictions.doc>

Plug-In Electric Vehicle Readiness Plan-BAAQMD

<http://www.baaqmd.gov/~media/files/strategic-incentives/ev-ready/bay-area-pev-readiness-plan-summary-2013-web-pdf.pdf>

Boston Invites Smart City Providers to the Table

<http://www.govtech.com/fs/boston-invites-smart-city-providers-to-the-table.html>

San Jose Demonstration Partnership Program

<http://environment.sanjoseca.gov/index.aspx?NID=2389>

Sacramento Urban Technology Lab

<https://cityofsac.forms.fm/sutl>

<http://www.techwire.net/news/demonstration-partnership-policy-readies-sacramento-for-smart-city-pilots.html>

Thank you

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