the future of clean driving is now

Michael Chiacos
Director of Energy and Climate Programs
Community Environmental Council
Our Greatest Impact

2015 Total CA Emissions: 440.4 MMTCO2e

Source: CARB (2018)
Our Greatest Impact
January 2018
Governor Brown issues Executive Order B-48-18

- 5 million ZEVs in California by 2030
- 250,000 vehicle charging stations and 200 hydrogen refueling stations by 2025
- $134 million to fund electric vehicle charging infrastructure and $92 million for hydrogen refueling infrastructure
Benefits

- Efficient
- Clean Air
- Climate Protection
- Convenience
- Performance
- Affordable
- Reduced Fuel Costs
Adding EVs to the Fleet + Employee EV Commuting

1701 vehicles
- 279 vans
- 254 sedans
- 129 SUVs
- 5 buses
Available Today

See the full range of options at http://www.PluginInCars.com/cars
Find optimal EV use cases - Assigned cars driving 30-200 miles/day

- Social Services/Behavior Wellness
- Building Inspectors
- Child Welfare Services
- Probation
- District Attorney
- Sheriff/Police Admin
- General Pool
## Significant Funding Opportunities for Vehicles

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Details</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Air Resources Board</td>
<td>Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)</td>
<td>$1,500-$7000 per vehicle</td>
<td><a href="https://cleanvehiclerebate.org">https://cleanvehiclerebate.org</a></td>
</tr>
<tr>
<td>California Air Resources Board</td>
<td>VW Settlement</td>
<td>$175,000 available per bus</td>
<td><a href="https://www.californiahvip.org">https://www.californiahvip.org</a></td>
</tr>
<tr>
<td></td>
<td>Volkswagen</td>
<td>$180,000 available per vehicle</td>
<td></td>
</tr>
</tbody>
</table>
## Significant Funding Opportunities for Chargers

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Details</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVIP funds for chargers</td>
<td>California Energy Commission</td>
<td>Up to $30k with HVIP voucher redemption for charging</td>
<td>Not currently online yet</td>
</tr>
<tr>
<td>ChargeReady 2</td>
<td>SCE</td>
<td>Pays cost of installing light and heavy duty chargers</td>
<td>On.sce.com/ChargeReady</td>
</tr>
<tr>
<td>Santa Barbara County APCD</td>
<td>Santa Barbara County APCD</td>
<td>Up to $10,000-$20,000/charger</td>
<td><a href="https://www.ourair.org/ev-charging-program/">https://www.ourair.org/ev-charging-program/</a></td>
</tr>
</tbody>
</table>
Night-time charging = $.60/gallon equivalent
VANS - 279 - (20 Chrysler Pacificas)
SEDANS – 254 – Bolt, Volt, LEAF, Prius Prime

- $20,000-$30,000 (after incentives)
- 150-238 mile range
- Or 25-53 EV miles, then hybrid mode
SUVS – 129 – Hyundai Kona/Mitsubishi Outlander

- 258 mile range
- 120 mpge
- $30,000 after incentives?
- 22 mile EV range
- 25 mpg in gas hybrid mode
- $27,000 after incentives
For Public Fleets

Rebates up to $7,000 are available for public agencies to purchase or lease of new, eligible zero-emission and plug-in hybrid light-duty vehicles.

Public agencies are eligible for up to 30 vehicle rebates annually. Some fleets may qualify for increased incentives if located within a California disadvantaged community census tract, as designated by the CalEnviroScreen tool.

More information available at: https://cleanvehiclerebate.org/eng/fleet
Ventura County Disadvantaged Communities
MEDIUM/HEAVY DUTY
BUS – 5 – BYD, Proterra, Gillig, and more…

- $150,000/vehicles + $30,000 charging
- HVIP funding to support transition
- Efficient
- Clean air
- State & National leadership opportunity
Barriers

- No green fleet policy directive
- Many departments making decisions
- Lack of awareness of electric vehicles and incentives
- Difficulty coordinating between departments
- Lack of charging stations
- Fleet manager inertia
Incentivize Employees to Drive Electric Vehicles

Incentivize employees, particularly low income

- Easy way to increase usage at existing chargers

SB County has 1,200 employees that drive over 60 miles/day to work.

- How many employees have long commutes in your agency?

EV leases

- Start at $150-$200/month, no down. $100-$150/month for low/moderate income ($75k/4 pp)

- After $2,500-$4,500 CA rebate and $450 SCE Rebate

Used EVs

- $5,000-$10,000
Building lower cost charging stations

- SCE Charge Ready program – 48,000 ports

- Lower cost infrastructure – less bells/whistles
  - Half capital and monthly cost

- Shared fleet and employee charging? Fleet at night, employee during day. 1 charger, 3-5 cars

- Use solar carport as pilot project
Thank you!

electricdrive805.org

Full Website Coming Soon
FIGURE 4  Lower transportation burden can lower overall household cost burden

Housing and transportation cost burden throughout California

<table>
<thead>
<tr>
<th>PERCENTAGE OF TOTAL INCOME</th>
<th>Housing cost burden</th>
<th>Transportation cost burden</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Francisco</td>
<td>32%</td>
<td>11%</td>
</tr>
<tr>
<td>Santa Clara</td>
<td>32%</td>
<td>15%</td>
</tr>
<tr>
<td>Alameda</td>
<td>32%</td>
<td>16%</td>
</tr>
<tr>
<td>Sacramento</td>
<td>32%</td>
<td>21%</td>
</tr>
<tr>
<td>Ventura</td>
<td>34%</td>
<td>19%</td>
</tr>
<tr>
<td>Contra Costa</td>
<td>35%</td>
<td>18%</td>
</tr>
<tr>
<td>Solano</td>
<td>33%</td>
<td>21%</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>37%</td>
<td>20%</td>
</tr>
<tr>
<td>San Diego</td>
<td>37%</td>
<td>21%</td>
</tr>
<tr>
<td>Kern</td>
<td>32%</td>
<td>29%</td>
</tr>
<tr>
<td>Stanislaus</td>
<td>35%</td>
<td>27%</td>
</tr>
<tr>
<td>Riverside</td>
<td>37%</td>
<td>26%</td>
</tr>
<tr>
<td>Fresno</td>
<td>35%</td>
<td>29%</td>
</tr>
<tr>
<td>Sierra</td>
<td>39%</td>
<td>26%</td>
</tr>
<tr>
<td>Orange</td>
<td>44%</td>
<td>21%</td>
</tr>
<tr>
<td>Imperial</td>
<td>33%</td>
<td>33%</td>
</tr>
<tr>
<td>Humboldt</td>
<td>39%</td>
<td>35%</td>
</tr>
<tr>
<td>Del Norte</td>
<td>38%</td>
<td>37%</td>
</tr>
</tbody>
</table>

Source: Center for Neighborhood Technology, Housing and Transportation Index. Average percent of income spent on housing and transportation for selected counties. Graphic by HCG.
Workplace Solutions

What we’re doing:

- Developing Electric Vehicle Fleet transition plans
- Increase supply of workplace charging stations
- Offering educational workshops
Local Government Support

What we’re doing:

- Creating a clearing house of resources for staff & leaders
- Collaborating to secure resources and funding for projects
- Expanding direct community outreach & engagement
Community Engagement

What we’re doing:

- Facilitating access to incentives
- Increasing access to charging and refueling stations
- Supporting direct community involvement