

Capital Area Plug-in Electric Vehicle (PEV) Coordinating Council

Meeting #2 Minutes

October 12, 2011

2:30 to 4:30 pm

SACOG Board Room

1415 L Street Suite 300, Sacramento

Attendees:

- Joe Anderson, Fehr & Peers
- Cicily Barnett, Sacramento Clean Cities Coalition (on behalf of Keith Leech)
- Tobias Barr, UC Davis PHEV Research Center
- Hubbert Booze, US Government Bureau of Reclamation
- Bill Boyce, SMUD
- Steve Burger, City of Folsom
- Julia Burrows, Valley Vision
- Eric Cahill, Adaptiv Consulting
- Heath Carney, John L. Sullivan Chevrolet/Auto Group
- Florentino Castellon, Governor's Office of Business and Economic Development
- Erik de Kok, City of Sacramento
- Tom Dowling,
- Emily Dransfield, Valley Vision
- Angela Frost, City of Elk Grove
- Guy Hall, Electric Auto Association
- Rick Larkey, North State BIA
- June Livingston, Business Environmental Resource Council
- Michael Kane, Sierra College
- Suzanne Mayes, Valley Vision
- Erik Mason, Clipper Creek
- Mario Montes, SETA
- Dennis Morin, Sacramento Area Electrical Apprenticeship
- Michael Nicholas, UC Davis PHEV Research Center
- Susan Oto, SMUD
- Glen Porter, Los Rios Community College District
- Raef Porter, SACOG
- Rick Renfro, City of Elk Grove
- Bill Slaton, SMUD
- Tim Taylor, Sacramento Air Quality Management District

1. Welcome and Introductions

2. Roundtable on Current PEV Activities

Share recent PEV work activities and opportunities

- Clean Tech Showcase on Monday, October 24th. Emphasis on electric autos especially, and will be an exhibit hall (free to public).
- National EV Day is on Sunday, October 16th. Davis is a key city nationwide. Partners include the Greater Sac Auto Association, Sierra Club, Plug in America. Events will promote the EV technology.
- The Sacramento Employment and Training Agency met with the CEC today, and received good news: There will be an RFP in Spring 2012 to fund RICO for the Alternative Energy and Fuels Sector. SETA like Valley Vision, Los Rios Community College District, other workforce development partners to be a part of this opportunity.
- A new hybrid/EV incentive program has been announced, providing vouchers for medium and heavy duty vehicles – available now. Information is available at CalStart.org and CaliforniaHVIP.org.
- Auburn-based company Clipper Creek has a new section on their website allowing customers to order charging stations online.
- SMUD Update:
 - SMUD recently finished a session on electrification, which is exciting for SMUD as they work to integrate the use of EV's with SMUD's grid system. Will be helpful to even those without EVs. However, there are still a lot of pricing issues to address.
 - Additionally, another 6 manufacturers who have yet to deliver EVs have contacted SMUD. There is a lot of excitement about our region. Currently, Sacramento is active with two real automakers, and there are about 100 electric vehicles in SMUD territory. (35 of these are contracted by SMUD). SMUD is working to help bring vehicles to our area. By 2015, there will be an estimated 10,000 EVs in the region. Thus, by 2025, the load on the grid will be substantial.
 - *Question: Do PG&E, Roseville Electric, and SMUD cross-pollinate work?* SMUD and Roseville Electric are similar because they are governed locally. PG&E operates under the CPUC, so differ by the governing board and motives. SMUD corresponds actively with both parties—especially, historically, with PG&E. SMUD is very active in supporting state-wide issues, in addition to local issues—is working to help people at the utility-level to understand electric vehicles, the impacts, and how to make the market a success.
- Overview: UC Davis Plug in Electric Vehicle Research Center
 - The UC Davis PHEV Research Center was chartered in 2007 through CEC grant for EV research. The Center received additional funding from the CEC to continue research through 2013. The Center's breadth of research includes studying consumers (and the ways EVs are used), EV batteries (finding suitable use for lithium ion batteries after EV use, such as in energy storage, smart grid application), physically testing models, and laboratory testing. Also – infrastructure placement and planning.

- The PHEV Center is engaging in a project with San Diego, completing a study on public infrastructure—how people use infrastructure, how it makes a difference to where they drive and where they charge. Want to know about EV drivers and understand their learning process. The PHEV Center expects to be able to use data to apply to other areas.
- The PHEV Center’s current Sacramento area projects include research on fast charging and reoccurring time of charging (time of day, day of week, etc.)
- There is a mobile app being built to help find charging stations and to look at travel data. (Fleet application will provide different data than personal/home use).

3. SACOG Work Program

Funding and implementation updates

- Our region received the CEC grant! (Was pending at last meeting.) Was a collaborative effort, thanks to all who worked on this.
- The CAPEVCC has funding sources:
 - DOE – We teamed up with other agencies around the state, and will receive a portion of the grant: \$75K. Will allocate the funds to create model ordinances to be used around the region. Potential focus on online permitting.
 - DOE – SMUD received \$500K for a Sacramento-county specific focus. The scope of work is fairly large—plan to look at best management practices around the state and country.
 - Will begin outreach to local planning staff and building officials, and also look at what this looks like throughout the country,
 - Assess what a model ordinance would look like,
 - Host public workshops for education and outreach, first responder training,
 - Public infrastructure planning especially around the three major corridors in Sacramento County.
 - CEC \$200K – will be managed by SACOG and focused on the six-county region. Plan to use the funds to catch up the other 5 counties with the work done in Sacramento County by way of the DOE grant. Will take the same scope and apply to counties and cities within.
- Other things to focus on as we break into subcommittees:
 - Beyond first responder training, what additional workforce training opportunities?
 - Public outreach needed beyond gen education – auto sales, connecting with utilities?
- SACOG will be looking to hire a planner (or planners) work on this. Would potentially create a contract with the city of Sacramento with supplied planning staff. Someone would probably be housed at SACOG.
- *Question: Is there an electronic plan review software assessing how much GHG we are saving? The City of Orange has a program for \$25K that plugs into other cities’ GHG*

savings. Is there funding for us to access this? It would be great for citizens and governments to have tools to measure the good being achieved.

- Raef Porter suggested we start to build in the data from the local air districts to share. There may not be funding for this, but there are things going on in the region and state to start tying in with Climate Action Plans.
- PG&E has also said they would be working on this.
- The Air Resources Board is also looking at data—the conservative numbers estimate that EVs generate 65% less carbon than traditional gas vehicle. (Bill Slaton of SMUD has information to pass along via email).
- The Air Resources Board and PG&E websites reportedly have PEV information on energy savings. Should work to make this information more accessible.
- The California Plug-In Electric Vehicle Collaborative is coordinating for the state-wide DOE grant. They are considering/recommending using the grant money to update codes, address permitting issues, train inspectors, look at infrastructure. Developing online permitting is also a priority.
- Other groups in the state are looking at:
 - Guidelines for ADA compliance (where are the loopholes)
 - The unique aspects of multi-unit dwellings.
 - Commonalities in compliance issues. How to spread information.
- *Question: Any plans to have the statewide grant recipients get together regularly via conference call to chat and cross-pollinate ideas?* SMUD's Susan Oto will look into this.

4. Capital Area PEV Mission

Primary tasks and outcomes

The mission of the Capital Area PEV grant was being written, the mission of the council was broad. The group brainstormed the objectives of the council to create an official mission for the group. The starting point of the mission was: *Support the increased adoption of PEVs in the six county region.* Discussion included:

- Include the support of associated technologies, including charging station infrastructure
- Convey the focus on sustainable usage of the EV technologies, business attraction, manufacturing, and workforce opportunities.
- “The why” also includes emissions reduction, creating economic benefit, and striving for a sustainable, prosperous region.
- Recognized that the mission could shift in year/phase 2.

Final mission statement: **Support increased adoption and usage of PEVs and associated technologies to improve the health, environment, and economy of the six-county region.**

5. Subcommittees and Membership

Identify subcommittees, chairs, and members

- Can serve on as many as you have time for
- The chair and co-chair will set the meeting schedule
- Meeting space at SACOG will be available
- CEC grant and DOE grant both have a 2-year time frame, at least initially.

- Will definitely take advantage of SACOG’s 31 member Board of Directors for outreach to staff and public.
- **Strategic Plan Technical Committee and Working Group**
 - Support the planner with the strategic plan, and technical advisors.
 - The big picture. Focus on land use – separate from hands-on permitting/public infrastructure.

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- **Public Infrastructure Working Group**
 - “Public”—a private parking lot versus city property.
 - Target: PHEV research + planners + utilities

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- **Local Government Permit Processing Working Group**
 - Work with the planner(s) hired through the grants on local gov’t planning processing and online applications
 - Target: Cities and local governments, invite other jurisdictions to participate

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- **Education and Marketing Working Group**
 - Public education outreach—addressing misunderstanding, fear, confusion.

- Educate the steps that one needs to take to prepare to take a PEV home – increase confidence.
 - People often go to the dealership looking for education, but this isn't the best way to educate people. The public needs a basic understanding (i.e. the difference between hybrid, electric, etc.)
- Address the barriers to adoption.
- Create unified messaging – one voice – so that information is consistent and people aren't confused. Direct people to one resource or website.
- Focus on multiple audiences, not just single-home buyer general public. This includes multi-unit, businesses big & small, businesses w/ heavy-duty vehicles.
- Would be great to have BERK involved.
- *Note: Subcommittees may be needed (i.e. Marketing focus, barrier-focus)*

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- **Workforce Development Working Group**

- SETA, Community Colleges.

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- **Economic – fiscal?**

- A lens to look at financial/economic pieces.
- Innovation and business models so entrepreneurs and firms can adapt as demand changes.
- Look at additional supply models that have hand-off transaction—not only dealer-car buyer. (i.e. Car sharing + more)

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6. Next Meeting

Wednesday, November 9 | 2:30 to 4:30 pm | SACOG

Agenda:

- Presentation on barriers for adoption. (Eric Cahill, and UC Davis PHEV Research Center)
- Update on scope of work
- Staffing plan

Any other suggestions?

- Brief by automakers and dealers—good opportunity to showcase the region’s resources with them.