

SacEV Meeting

May 8, 2013

Agenda - 5/8/2013

- 6:00 - 6:20 SacEV Welcome and general announcements
 - Recent Showings, Future Showings
 - Infrastructure Update
 - Workplace Charging
- 6:20 – 6:55 Ben Rubin, California Governor's Office
- 6:55 – 7:00 Contest
- 7:00 – 8:00 Breakouts

Honda Accord Plug In



Charger: 6.6KWH, 6.7 KWH Battery,
MPG Gas 46, MPGe 115, E-Range 13 miles,
Est Price: \$40K or 430/mo lease

What is **J1772** ?

A presentation by Chris Howell
Engineer and developer of the Open Source EVSE

For engineers, EV owners, and
anybody interested in green energy

May 17, 2013

In cooperation with SacEV
(the Sacramento electric vehicle association)



The J1772 standard is used by virtually all electric vehicles in the US to control charging of the EV. Chris Howell will be visiting Northern California on May 17 and will speak about:

- What exactly is that box called an EVSE?
- How does the charging protocol work?
- Can you build your own? (Yes, you can!)

Friday, May 17th, 11:15 AM

**SMUD Customer Service Building
6301 S Street, Sacramento
Open to public**

Friday, May 17th, 7:00 PM

**Conference Room A
UC Davis Conference Center
Open to public**

For more information, contact Jim Willson at 510-430-0350

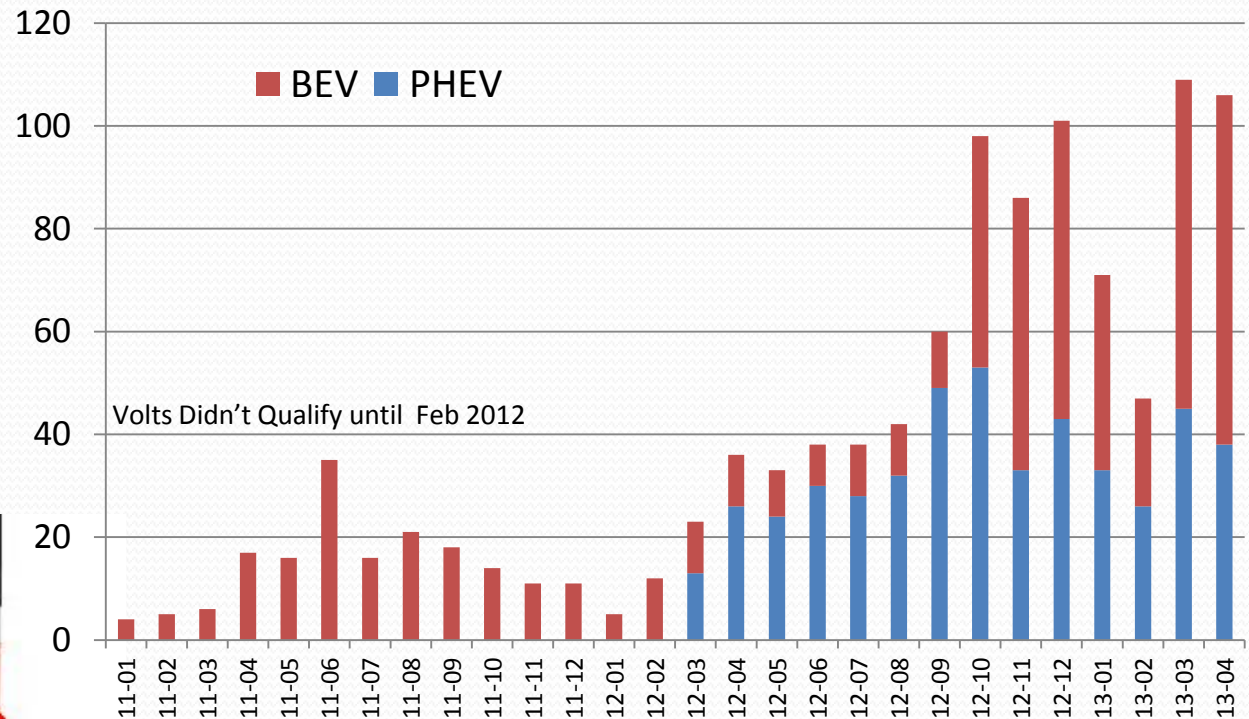
2012-2013 Showings

Results

- Over 150 EV's at 40 events
- >600 intend to visit a dealership within 6 mos.
- >1200 additional will strongly consider an EV for next car.
- >20,000 more were EV educated about EVs



EV Purchases in Our Region



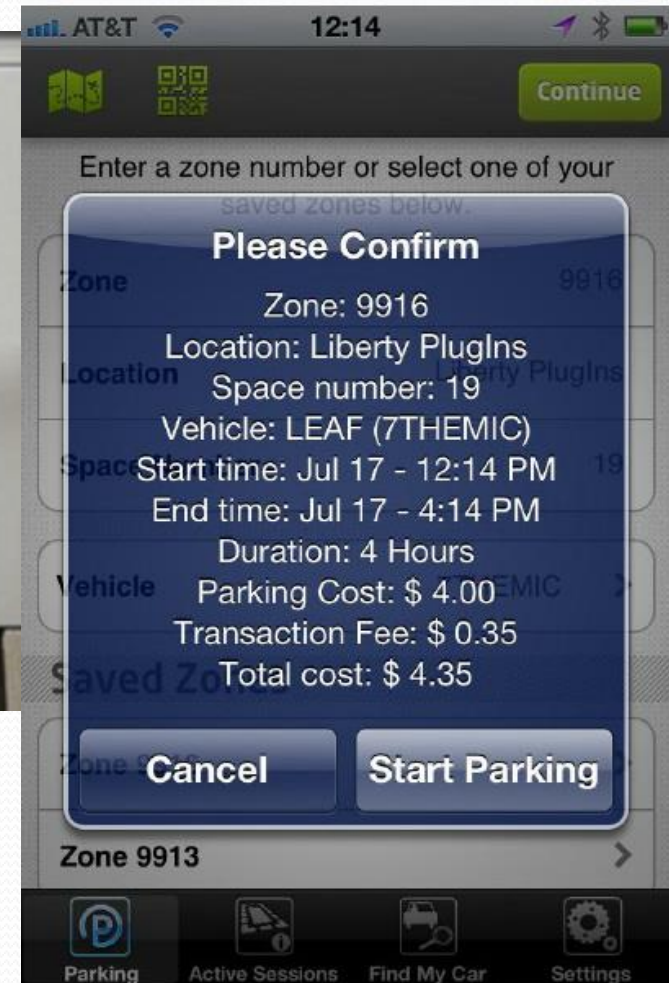
2013 Future Events

- Each event will require a champion
 - Coordinate with event organizer
 - Work with people displaying Evs or
 - Get any desired material from board member

Charging Infrastructure Notes

- Charger congestion at Sacramento City Garages
 - Considering 4 hour limit
 - Asking for ideas
- CHAdeMO
 - Vacaville charger back on line with new support approach – call (707) 474-4723 if problems.
 - Elk Grove Nissan Charger up and operational
- SMUD 2014
 - Residential rates changing, EV rates holding
- NRG
 - Focus is SF Bay Area, CHAdeMOs now, SAE's later
 - First installation going in now, 12 Bay Area by year end
- PGE
 - New PG&E tierless rate expected to be available mid June.
 - Summer KWH Off Peak/Partial Peak/Peak: \$0.10 / \$0.20 / \$0.36
 - Winter KWH Off Peak/Partial Peak/Peak: \$0.10 / \$0.16 / \$0.27

Liberty Plug In



- Owner sets rate
- No Transaction Fees to EVSE Owner
- Smart Phone App for Driver

Pay By Phone Charging

Cost Effective Billing Solution for EV Charging

EVSE Owner

- Create **Owner** Account
- Set EV Charging Fees
- Send Banking Info

Customer

- Create **User** Account
- Set “Wallet” Amount
- Download App



Driver launches app, enters charger # and selects EV charging time

Owner Receives

- 100% of EV charging revenues minus credit card processing fees.

Customer Pays

- EV charging fee plus \$0.35 transaction fee



Exec Loan
EV



Ride and
Drives



Grants



Education

Workplace Charging Package

Test Drives

Location	Test Drives	Miles
UC Davis	34	202
VSP	31	95
Green Summit	29	176
TOTAL	94	473



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Workplace Charging

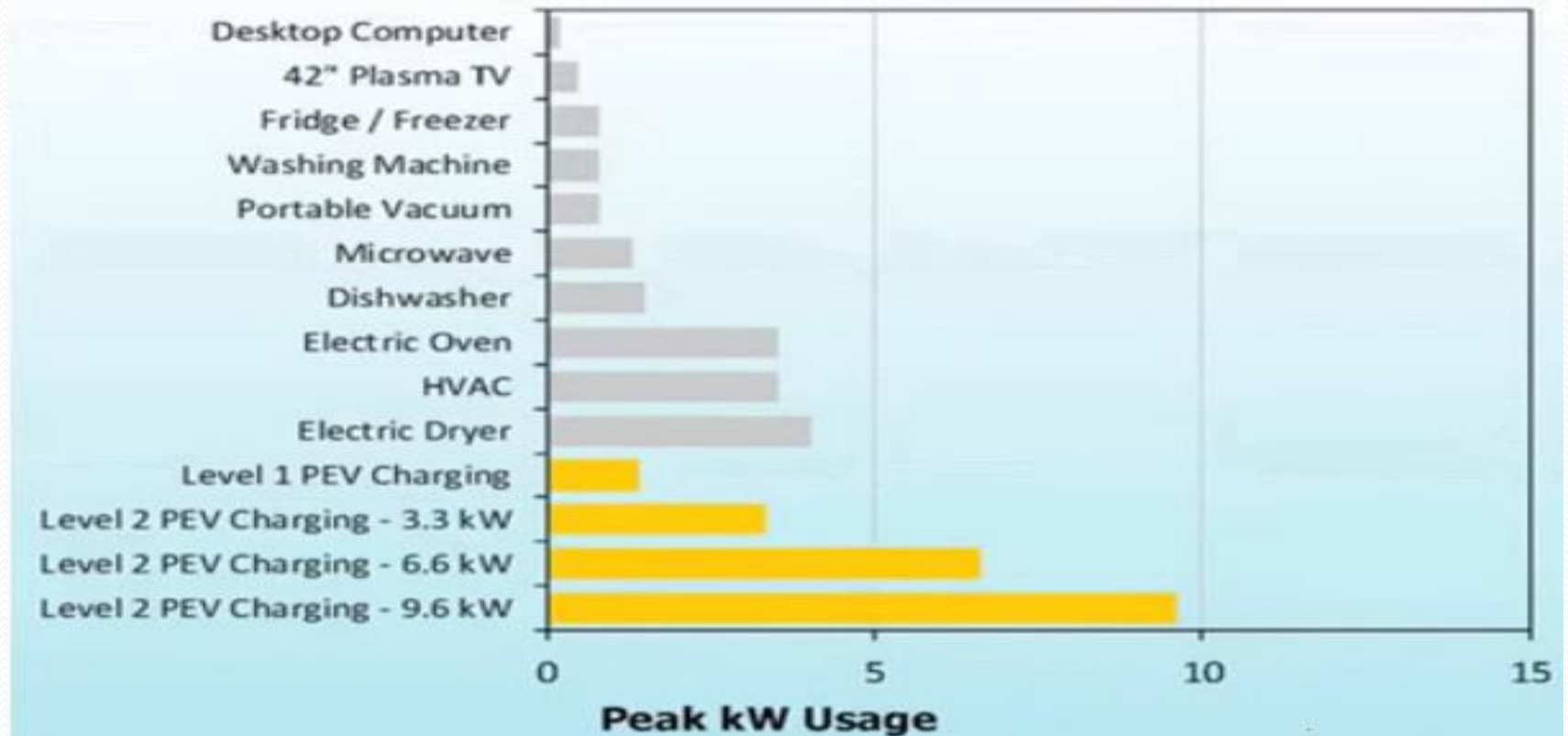
- Need to build candidate list
- Start at 1 Ride and Drive per month, ramp to two
- Start at 1 Executive Loan per month, ramp to two

Meet after primary meeting if you are interested on this topic

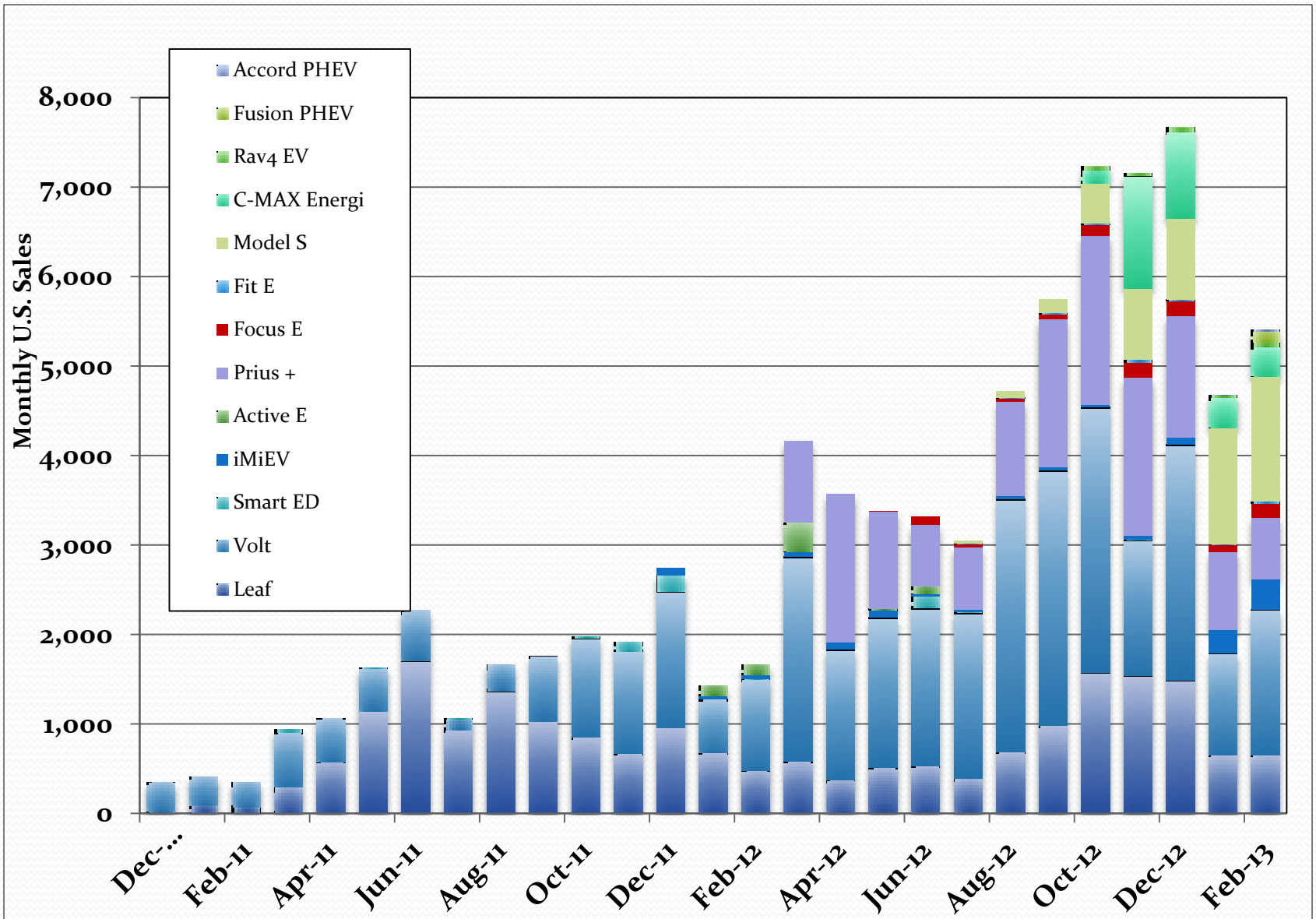
Governor's Office

- Ben Rubin
 - Associate Planner, Office of the Governor, Office of Planning and Research
 - Ben.Rubin@opr.ca.gov
 - 916 445-0613

EVSE Residential Charging Installation



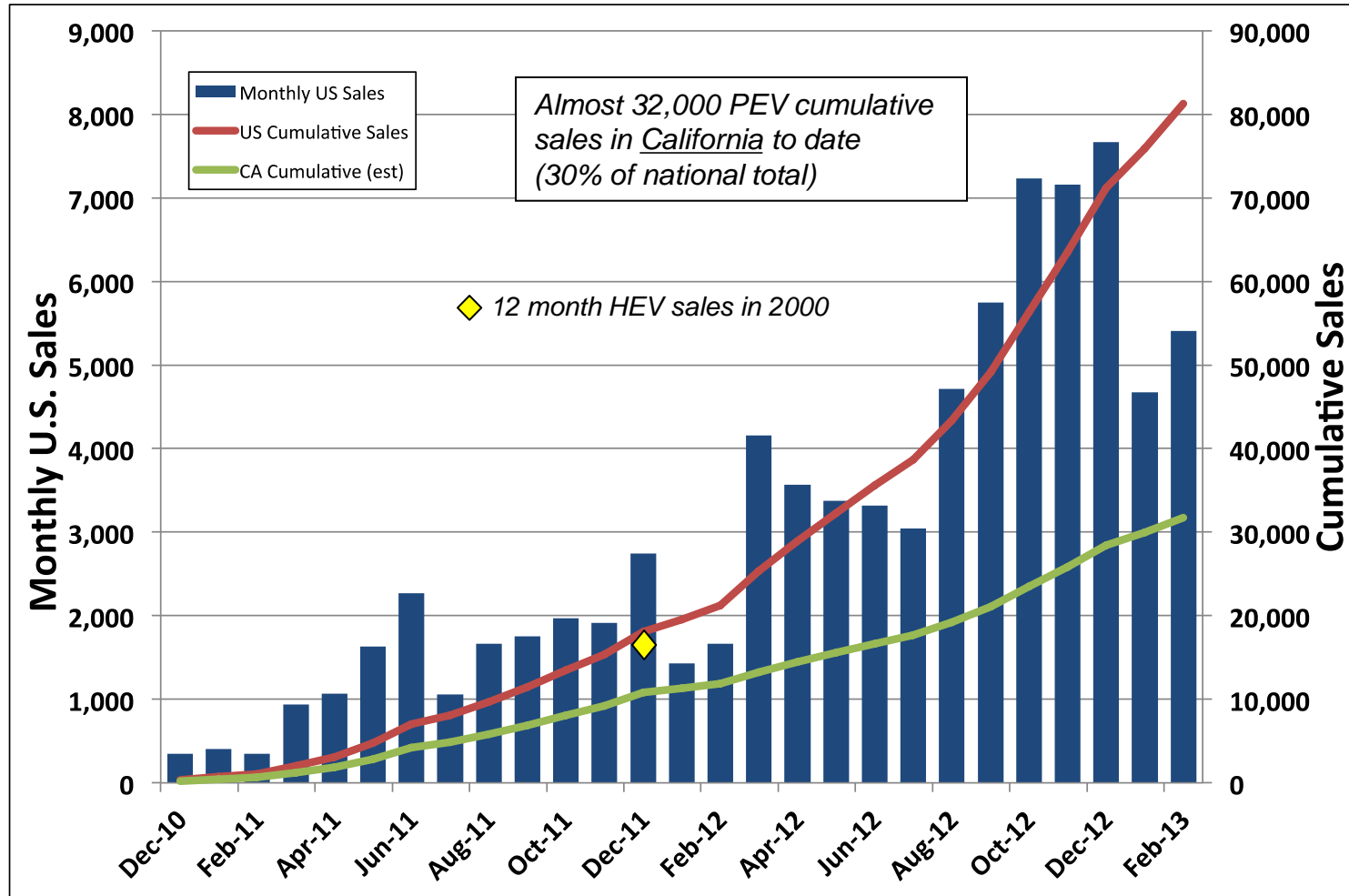
PEV Market – by Make/Model



EV Purchases in California



PEV Market – Combined Sales



Note: Approximation assumes CA sales were 60% of U.S. sales in 2011 and 30% in 2012 and 2013.

Reference: www.hybridcars.com

3/6/2013