#### SacEV Sacramento Nov 13, 2013

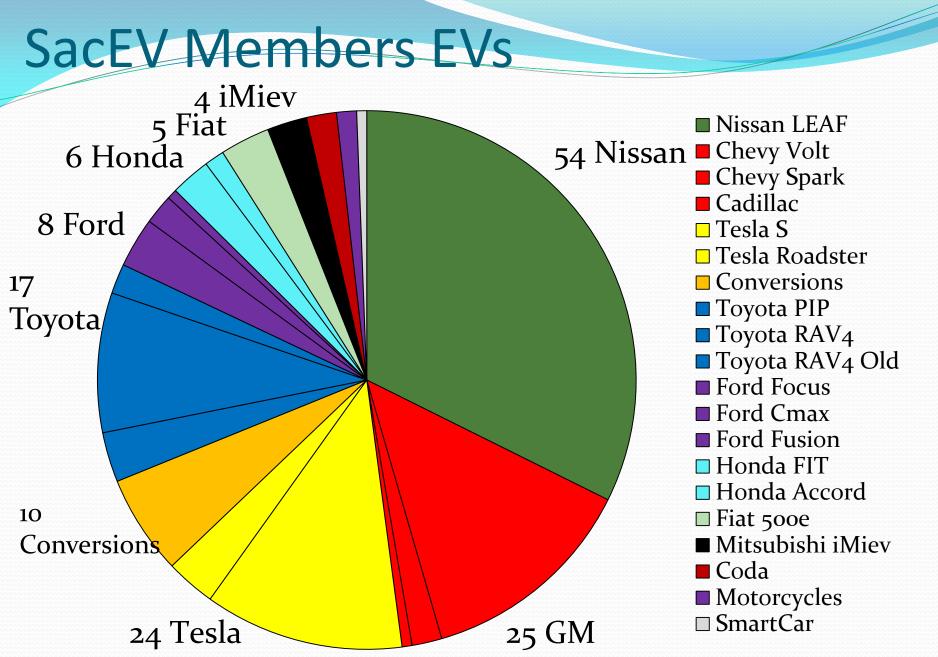
- Introduction and Trivia Quiz w/Awards
- Leadership Updates, SacEV Community Poll
- Sales charts California, Sacramento Region
- 2014 Regional Charger Update
- TakeCharge Sacramento 2014 EV Infrastructure Plan (Raef Porter, SACOG)
- CEC 2014 Charging Infrastructure Grant Overview (Raef Porter, SACOG)
- SMUD Charging 2014 Update (Ralph Troute , SMUD)
- Clipper Creek 2014 Update (Erik Mason, Clipper Creek)
- Valent Power update on 2014 Fast Chargers in California (Corwin Nichols)
- Calif Auto Museum Special EV Exhibition (Carly Starr, CAM Curator)

## Trivia Contest

- How many PEVs are in the California? 47,00
- How many PEVs are in the Sacramento Region? >2,000
- How many sold in December? 160
- Which EV model had the highest sales in December? LEAF (2529)
- Which EV model had the highest sales in 2013? (23,094)
- California Energy Commission
  announced it will award how many dollars for charging infrastructure? (\$6M)

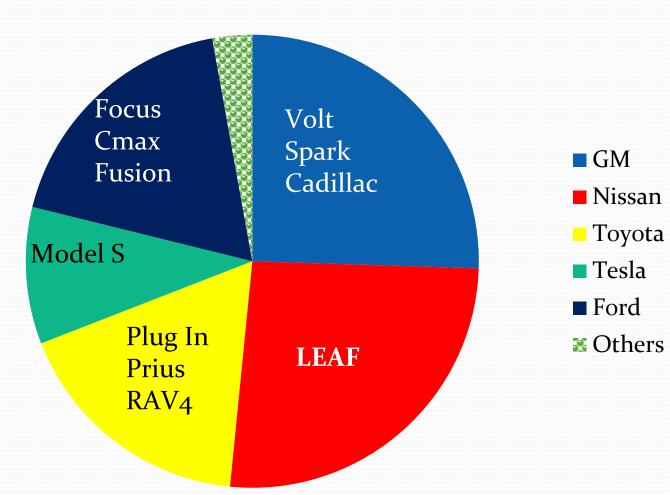


ENERGY COMMISSION

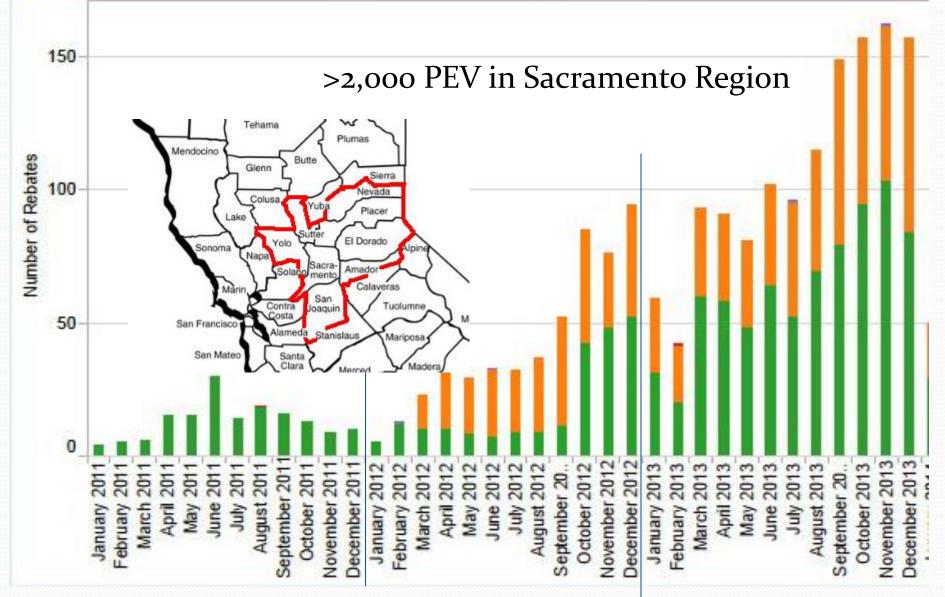


### 9,790 EV Sold in December - National

**December Market Share** 



## Sacramento Regional Sales



### 47,000 PEVs in California

| 3600-                                     | _          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             | _         |           |           |
|---|------------|---------|------------|-----|--------------|----------------|--------------|-------|------|-----------|-----------|----------|-------|-----|--------------|-----------|-----------|------|-----------|-----------|------------|------------|--------------|-----------|------------|------|------|-------------|-----------|------------|------------|-------------|--------------|-----------|-----------|-----------|--------------|--------------|----------|--------------|-------------|-----------|-----------|-----------|
| 3400-                                     |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           | _         |
| 3200                                      | -          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             | ₽         |           | _         |
| 3000-                                     | -          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          | _            | -           |           |           | _         |
| 2800-                                     |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          | _            |             |           | ł         | _         |
| 2600                                      | -          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           | _         |
| 2400-                                     |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           | ł         |           |
| g 2200-                                   |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              | -        | _            |             |           |           | _         |
| 2000-                                     | -          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           | ľ         |              |              | _        |              |             |           |           |           |
| 1800-                                     |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      | -    |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           | -         |
| 2200-<br>2000-<br>1800-<br>1800-<br>1600- | _          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      | _    | _           |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           | _         |
| 1400-                                     |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             | I         |            |            |             |              |           |           |           |              |              |          |              |             |           |           |           |
| 1200-                                     | -          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      | _    |             |           |            | _          | 2           |              |           |           |           |              |              |          |              |             |           |           | _         |
| 1000-                                     |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            | -    | _    |             | l         |            | _          |             |              |           |           |           |              |              | _        |              |             |           |           |           |
| 800-                                      | -          |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      | -         |           |            |            |              | -         |            |      | _    |             |           |            | _          |             |              |           |           |           |              |              |          |              |             |           |           |           |
| 600-                                      |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           | I         |            | _          |              |           |            |      | -    |             |           |            |            |             |              |           |           |           |              |              | _        |              |             |           |           | _         |
| 400-                                      |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           |           |
| 200                                       |            |         |            |     |              |                |              |       |      |           |           |          |       | r.  | -            |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           |           |
| 0   |            |         |            |     |              |                |              |       |      |           |           |          |       |     |              |           |           |      |           |           |            |            |              |           |            |      |      |             |           |            |            |             |              |           |           |           |              |              |          |              |             |           |           |           |
|   | Jar<br>201 | n, Feb. | Mar<br>201 | Apr | May<br>1 201 | , Jun<br>1 201 | n, J<br>1 20 | ul, / | Aug, | Sep, 2011 | Oct, 2011 | No<br>20 | v, De | ec, | Jan,<br>2012 | Feb, 2012 | Ma<br>201 | r, / | Apr, 2012 | May, 2012 | Jui<br>201 | n,<br>12 2 | Jul,<br>2012 | Aug, 2012 | Sep<br>201 | 0, O | t, M | lov,<br>012 | Dec, 2012 | Jan<br>201 | Fe<br>3 20 | eb, 1<br>13 | Mar,<br>2013 | Apr, 2013 | Ma<br>201 | iy,<br>13 | Jun,<br>2013 | Jul,<br>2013 | Au<br>20 | g, S<br>13 2 | Sep,<br>013 | Oct, 2013 | Nov, 2013 | Dec, 2013 |

## Top 5 Regional EV Impacts for 2013

- Regional EV 2013 sales more than doubled as prices and monthly leases plummet
- Tesla jumps in with Rocklin center and Supercharger network. Rocklin center is service 400 Tesla's in the region.
- Plug In Day over 250 test drives, 4,500 people engaged
- PG&E and SMUD react with lower off-peak electric rates
- Governor Brown executive order for 1.5M ZEVs by 2025 gains traction as:
  - an Interagency Working Group started working the ZEV Action Plan
  - joined 7 other states to put 3.3M ZEVs on road by 2025.

## Top 5 EV Predictions for 2014

- Faster Charging and Workplace charging reduce anxiety
- A confused **used** EV market picks up
- Oil companies go on the attack
- EVs and electric grid emerge as important political issue for EV owners, utilities and energy companies in 2014.
- Continued expansion of variety in the EV market increase choice and competition for consumers.

## **Charger Updates**

- Sutter Medical Plaza, Roseville, CA 95661
  - 4 NEMA TT-30 RV outlets and 8 NEMA 5-20 outlets (L1)
- Vacaville: NRG fast charger / J1772 at the Vacaville Outlets.
- Napa: Napa River Inn fast charger and J1772
- North Fairfield CarCharging ARCO: N Texas St
  - Installation complete, they are waiting for some parts.
- Nissan Dealers CHAdeMO:
  - Davis Hanlees Up and running
  - Roseville -Funded for 2014
  - Folsom March 2014
- Rocklin: NRG is planning on a fast charger in new mall near the new Wal\*Mart shopping center.

## Conversion Workshop LEARN HOW TO CONVERT FROM GAS TO ELECTRIC



**3-DAY HANDS-ON CONVERSION WORKSHOPS** 

- Feb 15 17
- Mar 22 24

- Apr 5-7
- May 17 19

\$495, register at: EV4UNow.com

# SAC EV 2014 AVE THE DATE – E&TC Events

\_\_\_\_\_

Powering forward. Together.





Youth Energy Summit EV Exhibit and booth January 24 and 25





### Home Energy Efficiency Expo Workshops | EV Rides | EV Exhibit |Booth April 12



### Solar Car Race American River College EV Exhibit and Booth May 2





Northern California Solar Regatta Rancho Seco Recreational Area EV Exhibit and Booth May 16 and 17





### Electricity Fair Historic Folsom Powerhouse September



## Grid Impact of Home Charging Field Measurement and Analysis

Dave Hatfield

SacEV Meeting

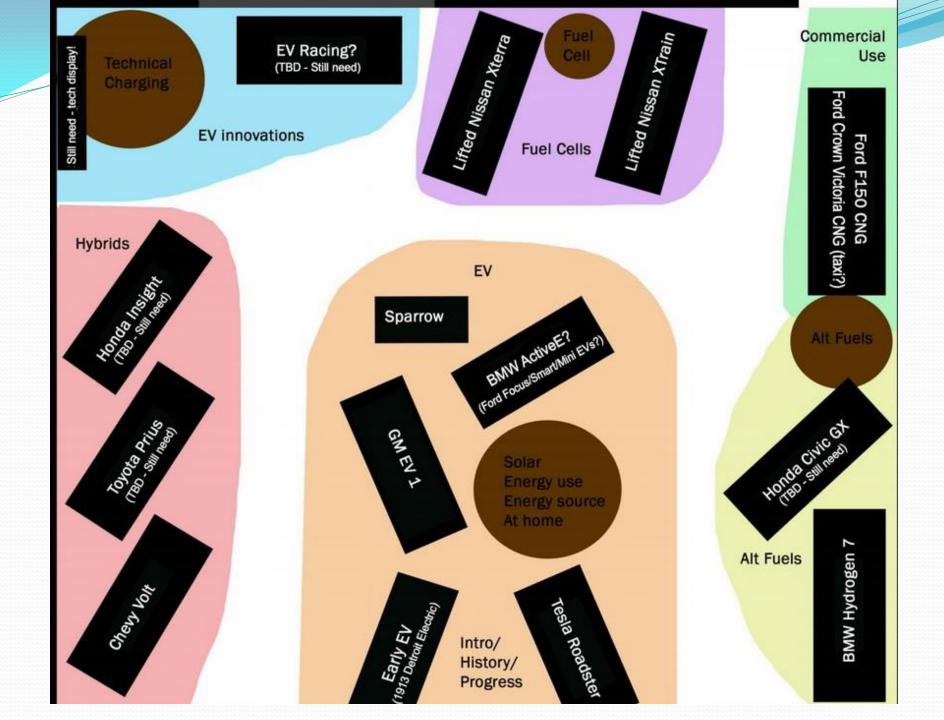
Wednesday November 13, 2013



Powering forward. Together.

## California Automobile Museum **IT'S ELECTRIFYING! ALTERNATIVE FUEL VEHICLES IN CALIFORNIA**

A look at the history of the growing industry of alternative fuel automobiles, especially electric vehicles. Not only is California's government a significant factor in the production of these vehicles, but also the primary consumer.



## TakeCharge EV Activity Calendar http://tinyurl.com/takecharge-cal

- Regional calendar
- Maintained by SacEV
- Embedded in SacEV's and TakeCharge's web site
- To add events ask for admin privileges or send info@SacEV.org

| File Edit View Favorites To  | ols Help                 | ×  | Google               |                    |                      | 🔹 🚰 Search 🔹 More                        | » 🌲 🎆 Guy Hall • 🔌 • 📎    | 222222      |
|--|--------------------------|--|----------------------|--------------------|----------------------|--|---------------------------|-------------|
| 👍 🧃 ContactSatori - Google A   | emotoo sync all you      | wa 🔁 Suggested Sites 🕶                     | 🍥 Vacaville 👻 📑 Fuel | l Economy          | " 🖬 🏠 • 🔊 •          | 🖃 🖶 👻 Page 🕶 Safet                       | ty 🕶 🚉 🛛 Tools 🕶 🔞 🕶 🤍    | 22222       |
| +Guy Search Image  | s Maps Play              | YouTube News                               | Gmail Drive          | Calendar More      | ÷                    |  |                           |             |
| Google   | Search Calen             | dar  |                      | *                  | Q guy.t.h            | all@gmail.c 🋕                            | + Share                   |             |
| Calendar   | Today < >                | May 2013                                   |                      |                    | Day Week Month       | 4 Days Agenda                            | More 👻 🖏 👻                |             |
| CREATE T   | Sun                      | Mon  | Tue                  | Wed                | Thu                  | Fri                                      | Sat                       |             |
|  | 28                       | 29   | 30                   | May 1              | 2                    | 3  | 4                         | 202222      |
| ▪ May 2013 <>  |                          | 10 Zero-Emission Ve<br>11 Zero-Emission Ve |                      |                    | 9 2013 Fiat 500e Rid | 11 EV Display at AR<br>1p CHANGE - Sac E |                           | 222222      |
| SMTWTFS  |                          |  |                      |                    |                      |  |                           | 222222 222  |
| 28 29 30 1 2 3 4<br>5 6 7 8 9 10 11  | 5                        | 6  | 7                    | 8                  | 9                    | 10                                       | 11                        | 10000000000 |
|  |                          | 10:30 Middle School                        |                      |                    | 1:45p Sacramento C   | Whole Earth Festival                     |                           | 222222 222  |
| 12 13 14 15 16 17 18   |                          |  |                      | 5p SacEV Pre-Meeti |                      |  |                           |             |
| <b>12</b> 13 14 15 16 <b>17 18</b> 19 20 21 22 23 24 25  |                          |  |                      | 6p SacEV Meeting S |                      |  |                           | 222222      |
| 19 20 21 22 23 24 25<br>26 27 <b>28 29 30 31</b> 1   |                          |  |                      |                    | 16                   | 17                                       | 18                        | 222222      |
| 19 20 21 22 23 24 25<br>26 27 <b>28 29 30 31</b> 1   | 12                       | 13   | 14                   | 15                 | 10                   |  | Ad Deire dalle Terrine D. |             |
| 19      20      21      22      23      24      25        26      27      28      29      30      31      1        2      3      4      5      6      7      8 | 12<br>Whole Earth Festiv |  | 14                   | 15                 | 10                   |  | 11 Fairytale Town E       | 222222      |
| 19 20 21 22 23 24 25<br>26 27 <b>28 29 30 31</b> 1   |                          |  | 14                   | 15                 | 10                   |  | 11 Spare The Air Kic      |             |

| The maps cannot surrantly to displayed. |  |  |  |  |
|---|--|--|--|--|
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  |  |  |  |



#### Locate other events in our EV calendar

