

Charged Up



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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President: Joseph S. Gottlieb

Vice President: Wistar Rhoads

Treasurer: Lloyd Rose

Program Chairman: Joseph S. Gottlieb

Newsletter Editor: Staff

Webmaster: Russ Lemon

Librarian & AV: Lloyd Rose

Regular Meetings: Our meetings are on on the 4th monday of every month (except December).

Location: California Center for Sustainable Energy
8690 Balboa Ave., Suite 100 · San Diego, CA 92123

Place: Main Conference Room

Next Meeting: Monday, May 23, 2011 @ 7:00 p.m.

Program: General Topics

Presidents Leaf:

1,000 miles and going strong. It drives, rides, and even looks like a car. I heard from a fellow LEAF owner it cornered well so I took it to the test and yes, it corners extremely well. It also accelerates faster than most economy cars.

I did have to pass on taking it up to L.A. because of the range and the limited time I had to opportunity charge, but driving for the last few weeks using all electric, I could take my gas guzzler while leaking 1 extra gallon of gas per mile out the back just for fun and STILL get a better average than 50MPG (I didn't). The folks in L.A. were disappointed because their building just installed 3 chargers and no one has a LEAF to use it.

I don't like the added sounds for others to hear my car. I often turn it off because it sounds like a quiet jet engine at idle. A weird sort of whooshing noise.

Other than that, it's a dream come true... again. I am back in the saddle of a well engineered machine I can drive to my local dealer to have fixed, updated, or serviced. For now, life is good.

Yes, I still have to hold back my centrally located finger when I pass by the huge lines of cars at the gas station.

Inside this issue:

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Quick Rant: “I feel like I won the lottery” says my friend about finding gas at \$3.99 per gallon. Good work big oil! you have successfully relieved the gas fear by lowering down below a psychological barrier. I guess even though we remain hostages, we are very happy when they stop aiming the gun at us. Let’s keep the momentum rolling in the EV space and shout from the rooftops “Fool followers of gas! Your day will come”. Apparently on May 21, 2011. Or is it Dec. 21, 2012?

From the Treasurer

It’s very exciting after all these years to see so much activity finally taking place for Public Chargers. San Diego was slated to have, I think, 1200 public chargers installed around town by Ecotality over the next year or two. This should assist with the Range Anxiety issues and



add convenience to those using their EV’s for work or pleasure per this recent following announcement.

Other News:

*Ecotality installs 1,000th Blink Level 2 residential charging station
by [Eric Loveday](#) on May 19th 2011 at 11:10AM*

On Monday, Ecotality announced that it had completed the installation of its 1,000th Blink Level 2 residential charging station, marking a significant milestone in the deployment of plug-in vehicle chargers in the U.S. Installations of Blink residential charging stations began in early 2011, coinciding with the delivery of vehicles like the Nissan Leaf and the Chevrolet Volt .

On a related note, Ecotality recently added MACY’S department stores to its list of commercial partners, which also includes BP/ARCO and BEST BUY, CRACKER BARREL and also FRED MEYER.

Ecotality is project manager of The EV PROJECT and will oversee the installation of approximately 14,000 commercial and residential charging stations in 18 major cities and metropolitan areas in six states and the District of Columbia.

The massive EV Project is funded by the U.S. Department of Energy through a federal stimulus grant of \$114.8 million, made possible by the American Recovery and Reinvestment Act.

More from the Treasurer

Better Place launches switchable-battery electric Taxi Project in Tokyo

Since Joseph and many other EV enthusiasts are Supporters of Switchable Battery Packs, I



thought we should update the latest news on Better Places Switchable Battery projects ! So, wanted you to know that Better Place today demonstrated the world's first switchable-battery electric taxi in partnership with the Japanese Ministry of Economy, Trade, and Industry, and Nihon Kotsu, Tokyo's largest taxi operator. The 90-day project marks the next major milestone leading up to a complete system test of all components of the company's

electric vehicle solution in Israel before year-end.

"Tokyo has more taxis than London, Paris, and New York combined, with approximately 60,000 vehicles, representing a high mileage, high visibility segment that can serve as the catalyst for this technology to transfer to the mass market," said Kiyotaka Fujii, President of Better Place Japan. "Since our initial announcement of this project, we've heard from cities around the world interested in converting their taxi fleets as a concrete way to fight CO2 emissions and urban pollution. Electric taxis are a pragmatic step forward for governments as well as a lucrative segment in the electrification of transport."

For the Tokyo electric taxi project, Better Place and Nihon Kotsu, Tokyo's largest taxi operator, will operate three switchable-battery electric taxis, which are available to the public at the taxi line reserved for environmentally-friendly vehicles on the first floor of the Roppongi Hills Complex. Better Place worked on the design, engineering and conversion of the gasoline powered, crossover utility vehicles turning them into electric taxis with switchable batteries. The batteries for these cars are provided by A123 Systems. Japan's Ministry of Economy, Trade, and Industry commissioned Better Place to conduct the Tokyo project as a result of the company's successful demonstration in Yokohama last year.

The battery switch station deployed in Tokyo represents a significant advancement over the Yokohama switch system demonstrated a year ago. The Tokyo switch station features the integration of battery storage and charging with optimal thermal management capabilities. The



Tokyo switch station also features nearly continuous operation of switching batteries for the three vehicles while optimizing battery life and performance, which can be monitored in real time online.

The battery is a critical element of the EV and how it is managed and charged is crucial to its optimization. For heavy use vehicles such as electric taxis, the need for repeated rapid (5 minute fast) charging will

degrade the lifespan and performance of the battery.

The industry is proposing various solutions to address extended range, but battery switch is the only feasible option—from the perspective of cost, flexibility (with the ability to manage charge time to less than 5 minutes), and technology—that will work in the near-term while offering a convenient, effective charging solution. Battery switch delivers an “instant charge” — a fully charged battery in less time than it takes to fill a fuel tank with petrol or recharge via other charging methods while 20-30 minute quick charge is impractical for such use. The duration, durability and robustness of the battery switch process and battery resistance to degradation will all be demonstrated under actual operating conditions with vehicles that

operate nearly continuously and thus drive much more than average passenger vehicles.



By year-end, Better Place will test all components of its solution in Israel as the company continues to gear up for commercial launch in Israel and Denmark in late 2011. The complete Better Place solution integrates charge spots, in-car software, operations centers, cars, and batteries, in addition to switch stations, all managed as an

intelligent network. I keep hoping that the switchable battery pack will offer an interim solution in some applications until “Fast Charging” stations can become developed as the next best option.



ELECTRIC VEHICLE (EV) CONVERSION WORKSHOP (ONE DAY MINI-COURSE)

Description: The workshop will go over the basics of a Gas to Electric Vehicle conversion with a focus on the EV sub-systems needed for a do-it-yourself conversion. Instruction will include hands-on activities on dynamic EV mock-up platforms. In addition previously converted EV case study models will be available for test rides.

- Date: Offered on the first Saturday of each month
- Time: From 9:00 AM to 1:00 PM
- Cost: \$75.00 (includes materials and lunch)
- Location: Kick Gas Co-Op, 815 University Ave, San Diego CA 92103
- Website: <http://kick-gas-club-electric-conversions.com/>
- Contact: quevedo@cox.net or jasonrugs@yahoo.com to pay registration fee

**** Space is limited ****

PUFF da mechanical DRAGON



Electric Vehicle Coop Garage quevedo@cox.net

Electric Auto Association (EAA) Membership Application Form

Fill out this form, attach a check, money order or use PayPal, in US funds only, payable to 'Electric Auto Association'. CE = Current EVents newsletter

e-CE \$35 USA & other Countries \$25 Student \$25 Senior (>65-USA/Canada only) birth year

paper CE \$45 USA \$48 Canada \$52 World \$29 Student \$29 Senior (>65-USA/Canada only)

\$120 (supporting level-1) \$240 (supporting level-2) \$500 or more (high voltage)_____ do not list my name

I support the _____ EAA Chapter (additional chapters, \$10 each) _____

(\$10each) Additional Chapters or Special interest group (other than the one that comes with the membership)

You can fold this form as indicated and mail it with your payment enclosed. Use tape to seal the form, **on the sides**, before you mail it or send an e-version of this form, through PayPal using <http://electricauto.org/eamembership.html>

New Member Renewal

Name email

Mailing address (Apt. #) Home phone

Mailing City, State & Zip-8 Work phone

Electronic version of Current EVents, paperless only, link sent by email, if your membership was for the e-version, that is what you will receive

Do you own or Lease an electric vehicle (plug-in) production conversion bicycle hybrid or None

please include miles driven and type of vehicle

All information in this application is for the exclusive use of the EAA and not sold or given to any other organization.

Please identify your primary areas of interest relating to the EAA (check as many as your wish)

Owner/Driver Hobby/Builder Professional/Business Competition (Rallies, Races, Records) Plug-in Hybrids

Environmental/Govt. Regs Social (Rallies, Shows, Events) New Technology & Research Solar & Wind Power

Promotion & Public Awareness of EVs Student or General Interest Electrathon/Bicycle/Scooter/Other

The Electric Auto Association is a non-profit, 501(c)(3) for the promotion of electric vehicles. Your donations are tax deductible and with your membership you will receive the EAA publication, "Current EVents". All information and statistics in this application are for the exclusive use of the EAA and is not sold or given to any other organization or company. Your membership dues include a percentage goes to the EAA Chapter you support for public Electric Vehicle promotion EVents like rallies, shows and EV rides.

Current subscribers have borrowing privileges for the association's video tape and publications library. Subscribing to the newsletter is optional and is not a requirement for membership. EVAOSD meetings are always open to any and all interested parties. New Subscribers, please use this form to register to receive the EVAOSD Newsletter. Current Subscribers, please use this form to send us any change in your details.

Please make check or money order payable to: EAA and reference EVAOSD. Send this form and payment to: Lloyd Rose, EVAOSD Treasurer; 2755 Dos Aarons Way, Suite A, Vista, CA 92081

EVAoSD Newsletter
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