

# Charged Up



## ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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Vice President: Lloyd Rose

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Newsletter Editor: David Crow

Webmaster: Russ Lemon

Librarian & AV: Lloyd Rose

**Regular Meetings:** Our monthly meeting location is in rotation. Please, check date and location below (No meeting in December)

### Meeting Location, Date and Time:

**Center for Sustainable Energy**

**9325 Sky Park Court, Suite 100**

**San Diego, CA 92123**

**Monday, 24 November, 7:00 P.M.**

**Program: News, Projects and future events**

### Newsletter Topics:

## 93 Mile KIA Electric Soul



### Cruising Electric



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## Message from the President

Hi All,

At the top of my holiday wish list is one of the new Nissan home energy interfaces to my leaf (available only in Japan right now). I am driving around in enough kWh to run my home for quite a while when a blackout occurs (or when the big one hits). It makes perfect sense to me not to have to build a giant battery pack in my home that I might use once or twice a year and until the power company starts paying me for peak shaving or other uses for that energy pack in my home, it's a tough investment to make. So why not use the one I am cruising around in that has plenty to give.

Please join us for our end of the year meeting that will include preparing for next year and all the really exciting stuff we are going to attempt to do. As always, we need your help to keep the EV dream alive.

-Joseph



LEAF-to-Home Technology

## 2015 Kia Soul EV Electric Car Rated: 93 Miles Range, 105 MPGe

By John Voelcker, [Green Car Reports](#), Oct 17, 2014

The very first 2015 Kia Soul EV electric cars are now being sold in California, adding a 19th plug-in vehicle to that state's market.

And its final EPA range and efficiency ratings may drive buyers in other states to demand that they get the chance to buy it too.

Given the apparent desire for plug-in family vehicles, this tall wagon may come closer to accommodating more kids and gears than other electric competitors.

The 2015 Soul EV is rated at 93 miles of range--more than any electric car on sale without a Tesla powertrain--and 105 MPGe, or Miles Per Gallon Equivalent.

Among larger electric cars, its 93-mile range is exceeded only by the 103-mile, Tesla-powered Toyota RAV4 EV electric crossover compliance car (which will soon end its limited sales run) and the two Tesla Model S versions, at 208 and 265 miles.

(The EPA website also lists the Chinese BYD e6 electric crossover at 127 miles, but that car is not sold to the public.)



Editors Note:

[His this link for an excellent First Drive Report on the KIA SOUL EV.](#)

The Soul EV's added range is due to a slightly larger lithium-ion battery pack: 28 kilowatt-hours rather than the Nissan Leaf's 24 kWh and various other cars that range from 20 to 24 kWh.

Moreover, the electric Soul's efficiency exceeds the notable 100-MPGe mark, putting it ahead of the far sleeker Tesla Model S--which is, of course, both larger and much faster.

It's exceeded by the smaller BMW i3 (the most efficient, at 124 MPGe), the Chevrolet Spark EV minicar (at 119 MPGe), and a number of other electric cars, many of them smaller.

The world's best-selling electric car, the Nissan Leaf, also beats the Soul at 114 MPGe; the low-volume Ford Focus Electric is rated at the same 105 MPGe as the Soul EV.

The upcoming Volkswagen e-Golf does slightly better even than the Leaf, at 116 MPGe.

MPGe stands for Miles Per Gallon Equivalent, the distance a car can travel electrically on the same amount of energy that's contained in 1 gallon of gasoline.

The 2015 Kia Soul EV will start at \$34,500 before the \$7,500 Federal income-tax credit for electric cars, and any available state and local incentives.

The base model includes navigation, a rearview camera, and the UVO EV Services smartphone app. For an additional \$2,000, the Soul EV Plus adds leather seats with heating and ventilation for the driver and front passenger, power-folding exterior mirrors, projection-style fog lamps, among other features.

The 2015 Kia Soul EV will also be offered at a lease rate of \$249 a month for 36 months, with \$1,999 due at signing. Note that this rate includes the \$7,500 Federal tax credit, thereby lowering the monthly cost.



## Electric Motorcycle Gangs: You'll Never Hear Them Coming

By Ben Rich , [Green Car Reports](#), Nov 21, 2014

Bikers are pack animals by nature. They like to ride in groups and enjoy the open road with a few friends. Biker gangs are well known to ride together wearing the same leathers. Group rides for charity are common in the summer and fall riding seasons. Clubs form around brand names and styles of bikes alike. Are there now groups of electric motorcycle riders tearing up the streets? Is it possible to have a group ride?

### Around Town

If you live in Los Angeles, the answer is yes. Hollywood Electrics has been running group rides through the canyons north of LA every month for a while now. They generally have more than 10 electric motorcycles along for the ride, touring nearby scenic roads and then ending up at a restaurant that uses an electric motorcycle for deliveries.

What's it like riding with a dozen or so electric motorcycles? Well, you can have a conversation at any stoplight.

You get to see wild animals on the side of the road that normally would have fled due to the noise of loud pipes.

You don't smell any fumes from the bikes in front of you.

You get smiles and stares (and sometimes questions) from people nearby whose ears aren't offended by your engine noise.



You get to enjoy riding with all of the benefits of riding a powerful motorcycle safely in a group without any of the smell or noise associated with gasoline-powered bikes.

That isn't to say that gasoline bikes aren't allowed. Friends of people who ride electric motorcycles sometimes still ride them. And they're welcome to join the ride and tag along--but their riders had better be prepared for some good-natured ribbing about the fumes they make and the noise that stifles conversation. But bikers are bikers, regardless of electric or gas power; if you can ride, you're welcome to join a group of people enjoying a two-wheeled ride through the canyons.

### Long-distance rides

If you're familiar with electric vehicles, you already know that range is limited and recharging time can be considerable. Electric motorcycles have these limitations too, so long-distance journeys are still rare.

The top three long-distance electric motorcycle riders are Terry Hershner, Ben Rich (your author), and Stephane Melancon. Terry has gone over 70,000 miles on his 2012 Zero S, which is now highly modified, and he has crossed the US five times. I rode my 2012 Zero S across the country in 2013, and also went on a 6,000-mile excursion in the summer of 2014. Stephane went on a 1,600-mile trip in 2014 on a 2012 Zero S with extra batteries.

To charge up, each of these bikers stopped for 30 minutes to 1.5 hours to recharge at Level 2 charging stations or RV parks.

This means that riding 400 miles in a day is possible, but it takes considerably longer than on a gas bike due to charging times. In fact, Terry Hershner recently joined the Iron Butt Association by riding 1,047 miles in 22 hours and 57 minutes.



I've gone on a few rides with friends who ride gas bikes, and it required some extra planning and time. First I rode to a charging station near the fun roads we planned on riding that day. Then I charged up for about an hour with external chargers on my bike and my friends arrived when I was finished charging. We rode for an hour and a half around Harriman State Park north of New York City, then finished back at the charging station in a little town nearby. We had lunch together while my bike charged again, and then we rode home. Total mileage together was a little over 100 miles.

For vacation riders you can go on a tour of the Alps on electric motorcycles with Eidelweiss Bike Travel or ride electric motorcycles around Cape Town, South Africa with Dualsport Adventures. Both companies offer tours with gas bikes, and have options for electric motorcycle tours with Zero Motorcycles. The Eidelweiss tour of the Alps is the same length as most of the tours with gas bikes, riding approximately 100 miles per day.

The range on electric motorcycles has increased every year, such that a full battery will get you about as far as a tank of gas on many bikes. However, the recharge time is still the bottleneck. As soon as sites with CHAdeMO or CCS DC fast charging can be used with electric motorcycles, it will be possible for many more people to take longer electric road trips.

### The Future

For electric motorcycles to have the ability to go on long road trips with gas bikes--400 or more miles per day--there are several potential futures. Battery technology could advance to the point where we have 10 times the energy density that we currently have. That would provide a 1,000 mile battery, making it unnecessary to charge during the day. Faster charging would allow batteries to be charged as fast as gas bikes are filled up. For example, if a 15-kWh battery on a 2015 Zero S could use a Tesla Supercharger at 135kW to charge, it would take only about 7 minutes. Multiple chargers, like those fitted to Terry Hershner's bike, would allow the rider to plug two (or more) Level 2 chargers into their bike at the same time. Combined with higher battery capacity, this is a reasonable solution for the near future while we await any technological breakthroughs.

In the end, electric motorcycles are amazing to ride: Just ask anyone who has gone for a test ride. But if you want to take a road trip, you will need to put a few extra dollars into your own faster charging system to take along for the ride--and bring a good book to read too. And, by the way, if you see a "gang" of electric bikers ... you may find them among the kindest and most considerate group of people you will meet.





## City 2 Electric Run-About



**AVAILABLE COLORS:** white, gray, yellow, maroon  
**AC Motor** 72V  
**Six 12v Deep Cycle Lead Acid Batteries** (Trojan)  
**Range:** 30 miles  
**Approximate re-charge:** 4-5 hours  
**Overall length:** 8 feet, 10 inches  
**Width:** 4 feet, 10 inches  
**Curb weight:** 1,900 pounds  
**Transmission:** automatic with reverse  
**Sevcon** controller  
**Brakes:** front disc, rear shoe  
**4-wheel MacPherson Strut independent suspension**  
**Leather seats**  
**Alpine Stereo Radio**  
**Electric windows**

**Distributed by** Bud Hulst

**Go-Electric EV** — San Marcos, CA  
go-electricev@roadrunner.com  
760.612.5022

**Made in South Korea**  
by CT&T Co., Inc.

**THE "CITY 2" IS A LOW SPEED VEHICLE**

# 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) \_\_\_\_\_

(\$10 each ) 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.

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

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