

# Charged Up



## ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

2755 Dos Arons Way, Suite A, Vista, CA 92081

Ph: (760) 670-3388 Fax: (760) 266-9505 Email: [EVAOSD.Newsletter@DriveGasFree.com](mailto:EVAOSD.Newsletter@DriveGasFree.com)

Website: [www.evaosd.com](http://www.evaosd.com)

### Officers:

President: Joseph S. Gottlieb

Vice President: Lloyd Rose

Treasurer: Richard Rodriguez

Secretary: David Crow

Program Chairman: Staff

Newsletter Editor: David Crow

Webmaster: Russ Lemon

Librarian & AV: Lloyd Rose

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

**Location: SDG&E Facility**  
**9305 Lightwave Ave.**  
**San Diego, CA 92117**

**Next Meeting: February 26th, 6:30 PM**  
**(Wednesday)**

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

### Newsletter Topics:

#### Formula E Racing Coming



#### Used EV Market



### Inside this issue:

- 1 Newsletter Topics
- 2 Message from the President
- 3 What is Formula E?
- 4 Used EV Market
- 5 For Sale - 1996 Chevy S10-EV
- 6 Subscription

## Message from the President

by Joseph Gottlieb

It's time to move again. We have had a lot of offers on where to have our meeting and we are investigating them all. Please bear with us until we find a more permanent home. We have shrunk in attendees lately and can probably fit in a smaller venue until we regain a larger constituency. We need some new air into the club and all ideas on gaining membership are welcome. Let's make it a goal this year to get our membership and meeting attendance numbers up!

Joseph



## How Does Formula E Electric-Car Racing Work? What You Need To Know

BY Antony Ingram (Green Car Reports)

This September, a new motorsport series launches in Beijing, China.

That series is Formula E, an open-wheeled single-seater motorsport running on battery power alone. It's positioned as a top tier series for electric racing and could be instrumental in aiding the development of batteries and control systems for electric road cars.

[Charged EVs](#) has revealed full details of how the races work--from how teams expect to complete each race distance to what spectators can expect during and after the race meetings.

One detail that's been known for some time is the vehicle every single team will use in the first year of the sport.

To ensure the series gets off the ground with minimal issues, French automaker Renault will supply every vehicle in the first year of the championship. We've seen the Spark-Renault SRT\_01E at several events around the globe so far, most recently in Las Vegas, and it'll give teams a good idea of what to expect from racing once they enter their own vehicles in subsequent years.

Performance from the cars is strong, with a 3-second 0-62 mph sprint and a top speed of around 140 mph. That's a fair way off Formula One cars and even F2 vehicles, but the cars' striking styling and large aerodynamic wings should provide a spectacle even so.





They won't be as quiet as many are expecting either--between the electric motors, tire noises and the whoosh of a car cutting through the air, they're expected to exceed 80 decibels--10 decibels more than a typical gasoline road car.

Still, noise at the series' city-based circuits shouldn't be excessive. Nor will the one-day format disrupt city routine too much, since practice, qualifying and the race will all occur on the same day.

During the first two sessions, a whole 270 horsepower will be available to the drivers. This is cut back to 180 horses during the race to save power, though an extra boost is available to drivers as a "push to pass" function.

Even so, cars would run out of charge before the end of the race. That's where the car swap system comes in--meaning drivers leap out of one car and into another during the race's two pit stops, fully charged and ready to go.

Each of the ten teams has two drivers, meaning four cars per team. The series will feature a total of 42 cars, the remaining two of which are backups. Presumably, the series is expecting minimal contact and accidents...

After the racing is done, spectators will still have plenty to entertain themselves. Not only will they be in the heart of cities like Los Angeles, Miami, Monte Carlo, Berlin, London and Rio di Janeiro, but each race will feature a concert too. Formula E will be both televised and streamed online, allowing people around the world to keep up with the action.

The first race, in Beijing, runs on September 13. It has all the hallmarks of being a fascinating series--and we'll be bringing you updates on the series as that first date draws ever closer.

**FOOTNOTE:** Here are some Video links covering Formula E

[Formula E overview on Renault TV](http://www.youtube.com/watch?v=4CzjIY5ZczM) (<http://www.youtube.com/watch?v=4CzjIY5ZczM>)

[Formula E car racing through Moscow](http://www.youtube.com/watch?v=nDZ4VSFC6z0) (<http://www.youtube.com/watch?v=nDZ4VSFC6z0>)

[Drayson Formula E race track testing](http://www.youtube.com/watch?v=c3qS12id9s) (<http://www.youtube.com/watch?v=c3qS12id9s>)

[Formula E coverage by the Financial Times](http://www.youtube.com/watch?v=RYjI6z03zVA) (<http://www.youtube.com/watch?v=RYjI6z03zVA>)

## The Used Electric Vehicle Market is Growing

by Dave Crow

For a dozen different reasons the buyer of a new Electric Vehicles (EV) later decides he won't or can't used the car he bought. These cars are running great for most owners and customer satisfaction is running well above the industry average. Maybe they just couldn't fit an EV into their lifestyle. If you are in the market for an EV, this creates the opportunity to get into a lightly used EV for a lower price than what the new ones are listed. The California (\$2500) and federal (%7500) monetary incentives the new car buyer received are certainly past on to the used car price. Currently the basic 2014 Leaf (S model) is listed at \$28,980 although most used Leafs are equipped like the SL model which lists new for \$35,020. The 2014 Chevy Volt base price is currently \$34,185.



Based on what I see on the internet, there are a lots of used EVs available. For this sampling, I searched the following sites (hyperlinked so you can start shopping, right now!):

[www.cars.com](http://www.cars.com)  
[www.autotrader.com](http://www.autotrader.com)  
[www.carsdirect.com](http://www.carsdirect.com)  
[www.carmax.com](http://www.carmax.com)  
[www.ebaymotors.com](http://www.ebaymotors.com)

From these websites, in the SOCAL area, There are about 50 used Nissan Leafs available and the cheapest is listed for \$13,600. There are about the same number of used Chevy Volt with the lowest for \$19,900 - it has some miles on it. Aside from some software glitches being fixed by updates, reporting show that all EVs are very mechanically sound and should last a lot longer than their ICE counterparts. The degrading "bars" count on the Leaf capacity gets a lot of attention, so you should check for that condition on a used one.



If you are a bit more on the wild side, you can get a used Tesla Roadster for \$62,900, OBO. And there is a second generation RAV 4 EV going for \$36,000! There are a significant number of Tesla Model S on the used market, but, they are selling for a premium due to the new car backlog of a few months. That's called "supply and demand". And the demand for a Tesla Model S is very high!

If you really want to wait a bit more, beginning in 2015 will be the start of three year lease returns and even more new car options putting further downward pressure on the used car pricing as many buyers clamor for the latest and greatest in the rapidly evolving EV industry.

Happy Shopping!

# 1996 Chevy S10 Pickup – 144 Volt – Zilla – 5 speed Many features - needs new battery pack - \$7500



**Call (760) 402 – 6343**

# 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.

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: Richard Rodriguez, EVAOSD Treasurer; 2755 Dos Aarons Way, Suite A, Vista, CA 92081

EVAoSD Newsletter  
 2755 Dos Aarons Way, Suite A  
 Vista, CA 92081

Address Correction Requested