

Charged Up



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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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

Monthly Meetings: During the 4th week of the month, day depends on venue.
(No Meeting in December).

Meeting Location, Date and Time:

Coleman University, Hopper Hall

8888 Balboa Ave

San Diego, CA 92123

Wednesday, 24 Feb 2016, 7:00 P.M.

Program: News, Projects and Coleman meet

Newsletter Topics:

SDG&E Chargers



Safe, Green, Clean



Faster EV Bullet



Inside this issue:

- 1 Newsletter Topics
- 2 Message from the President
- 3 SDG&E Charging Stations
- 4 Spira makes the News
- 5 Faster Land Speed EV
- 6 Local EV Builders and Offers
- 7 Subscription

Message from the President

Hi All,

Not only are electric cars mainstay, now gas prices are tanking. This might be a tough time for our association. Over the last decade, we always saw a decrease in attendance with low gas prices. Luckily, there is some oddness to keep EVs in the news. For example, Radio Flyer has a kid sized Tesla Model S. Aston Martin is building an electric car and they are rumblings that the old Apter crew is talking about a revival (no, I am not kidding). We must make sure we support all of this effort best we can. I also saw some pictures of a twin AC motor system from EV West. It looks very cool and I hope it performs as good as it looks. Let's keep the momentum going!

-Joseph



Aston Martin RapideE Electric

SDG&E To Install Thousands Of Electric Vehicle Charging Stations

PR Newswire San Diego Gas & Electric (SDG&E)
January 28, 2016

Today, the California Public Utilities Commission (CPUC) approved San Diego Gas & Electric's (SDG&E) Electric Vehicle Grid-Integration pilot project, signaling the "green light" for the company to own and install thousands of electric vehicle (EV) charging stations at businesses and multi-family communities, including in underserved neighborhoods, throughout San Diego and south Orange Counties. An important program benefit is that it should maximize the use of renewable energy to charge electric vehicles and minimize the need for new fossil-fuel power plants.



"Today's decision not only creates an exciting new opportunity for us to better serve our customers, it also delivers a real solution to achieving California's ambitious climate goals," said Jim Avery, chief development officer of SDG&E. "This pilot program will provide us with a unique opportunity to support the increased adoption of zero-emission vehicles to reduce smog and other pollutants created by the transportation sector in California."

In 2012, Gov. Jerry Brown set a bold vision of having 1.5 million zero-emission vehicles on the road in California by 2025. For the San Diego region to meet a mere 10 percent of that target – 150,000 electric vehicles – EV growth and supporting infrastructure must increase at a much quicker pace. SDG&E is now poised and positioned to accelerate the EV race.

Today, the San Diego region has only 19,000 EVs and the barriers to clean transportation are particularly sobering. Fifty percent of SDG&E's customers live in multi-family communities. Without access to vehicle charging, there is virtually no way for these residents to ever become part of the solution to significantly reduce air pollution or to create real personal savings by eliminating gasoline bills. SDG&E's initiative will help address gaps like this in the market and ensure charging is accessible to all customers.

The company will install charging stations at up to 350 businesses and multi-family communities throughout the region, with 10 chargers at each location for a total of 3,500 separate chargers. SDG&E will install at least 10 percent of the chargers in disadvantaged communities. SDG&E's project will overcome many current obstacles to EV growth and reassure local EV drivers that they will have a place to charge their vehicles.

In addition to expanding access to EVs, the pilot features special rates that encourage EV drivers to charge their cars when electricity supply, including renewable energy, is plentiful and energy prices are low. With rates encouraging off-peak charging, vehicles will be efficiently integrated onto the grid, helping to avoid on-peak charging that drives the need to build more power plants and other electric infrastructure.



California has led the way to de-carbonizing electricity over the last several decades, helping to pave the way for the modernization of the transportation sector. With SDG&E's energy portfolio being made up of 33 percent renewable energy and no coal, drivers will be plugging into one of the cleanest electric grids in the country. Furthermore, with the pilot's special rate encouraging drivers to charge exactly at the times of day when solar power is at its height, customers will literally be driving on sunshine.

SDG&E has an extensive track record of promoting electric vehicles, both in the community and for its employees. Last year, the company launched the "Race to 500," an innovative clean transportation program that targets SDG&E becoming one of the first Southern California businesses to have 500 employees driving EVs as their primary form of transportation. To date, 200 employees have purchased or leased an EV, with the company offering incentives paid for by shareholders and easy access to workplace charging to encourage the shift. SDG&E has installed more than 158 electric charging stations at company facilities, which is the most of any location in San Diego. SDG&E also is adding 163 more plug-in EVs to its fleet as part of a five-year purchase plan.

Tierrasanta Man Claims Special Car Saves Lives

Robert Santos, KGTV 10, 6:40 PM, Feb 16, 2016

A Tierrasanta man claims the special vehicle he invented will save lives.

Lon Ballard's home has become a showroom of sorts for an invention he started thinking about in the 1980s. "Now, we have 18 in California," said Ballard, CEO of Spira4U. "It's the safest, greenest, cleanest vehicle in the world."



Ballard claims the Spira, technically a three-wheeled motorcycle, is the solution to saving lives on the road. Statistics show about 1.2 million people worldwide die in a crash every year. "This foam on the outside to protect both pedestrians and the people inside," said Ballard. "Do you want four feet of foam or metal in front of you when you crash?"

In addition to foam, the Spira has a honeycomb core board chassis that's 10 times stronger than plywood and 100 percent recyclable. Recently, the Insurance Institute for Highway Safety put the Spira to a 40 mph small-lapse crash test. It's the kind of crash where a vehicle hits an object like a pole or tree.

Ballard said the Spira bounced off or slid off the metal object rather than coming to a dead stop like typical cars. "Mothers Against Drunk Driving should be 'Mothers Against Dumb Design,'" added Ballard. "This is a very light vehicle; that's to save resources. When you hit people, you don't kill them."

That material and design is what makes the Spira float like a boat as their recent test at Lake Miramar showed. "You'll never die in a Spira from drowning because it floats," said Ballard. 10News anchor Robert Santos test drove the electric version, which travels up to 70 mph. "It's actually pretty fun to drive. It feels like halfway between a go-cart and a motorcycle," said Santos.

Ballard started making and testing prototypes while in Thailand, where he lived for a few years after he retired as an engineer. Since then, he found a Chinese manufacturer that has built 50 Spiras so far. Ballard used to have 15 Spiras in his backyard. Now, he has 10 of them available at rental car companies for people to rent. The rest of them are ready for a buyer.



Lon and his SPIRA on Display at the San Diego International Auto Show

Ballard was also one of 12 finalists from around the world in the X-Prize competition, which inspires the newest generation of fuel-efficient vehicles. Ballard said his design is the only one on the market now. If you're interested in buying one, the electric version costs \$10,000, while the gas version of the Spira costs \$6,000.

You can learn more at www.spira4u.com. More on Local TV, CW6.

Forget Tesla's insane mode: Electric 'bullet car' set to reach 370mph in latest record-breaking attempt

- VBB-3 is latest model by Venturi Automobiles and Ohio State engineers, who set 307mph land record in 2010
- Electric vehicle has 3,000 horsepower, and will try to become world's fastest car by hitting speeds of 372 mph
- Inside, the 12-meter car has cables that total 3.5 miles, and contains 2,000 cells inside of eight battery packs

By CHEYENNE MACDONALD FOR DAILYMAIL.COM, 6 February 2016

At Utah's Bonneville Salt Flats, a new arrival is gearing up to break records on the legendary speedway. The VBB-3 is the collaborative project of Venturi Automobiles and student engineers at Ohio State University, and it boasts nearly 3,000 horsepower. This vehicle is the most powerful electric car in the world, and can hit speeds as high as 372 miles-per-hour. The team is hoping to take it for a record-breaking run this summer. It can go from 0 to 60 in just two seconds. This compares to Tesla's 'Insane Mode' on its Model S electric cars that goes from 0 to 60 in 3.2 seconds.



According to CNN, the first car that broke 300 mph was Malcolm Campbell's Bluebird, and it did so in 1935. Decades later, Monaco-based Venturi continues to push the boundaries. In 2010, the Venturi team set a world landspeed record with an earlier model, the VBBB-2.5, reaching 307 mph. Subsequent attempts by Venturi to break their own world record were put off by bad weather, with flooding in 2013 and slush in 2015.

Student engineers at the Ohio State University's Center for Automotive Research (CAR) have examined every part of the 12-meter electric car, including an expanse of cables that cover nearly 3.5 miles. The 'electric streamliner' is 12 meters long, and contains 2,000 cells within eight battery packs.

'Along with our partners at CAR, we are aiming to exceed our own electric FIA Land Speed Record established in 2010 with the previous model – the Venturi Buckeye Bullet 2.5 We want to show all the potential of this very unique prototype,' said Venturi's lead project engineer Delphine Biscaye.

Venturi is also working to manufacture vehicles in the FIA Formula-E championships, and even has its own racing team, to which the technologies are being integrated.

'The knowledge we've gained from this project is being used on the Formula E project,' Biscaye told CNN. 'In Formula E, we are a manufacturer this year, providing the powertrain.'



Along with its high-speed capabilities, the VBB-3 is a test in electric propulsion and energy efficiency. The researchers allows engineers to understand how an electric vehicle of this kind can operate under harsh condition, which has potential benefits for other automobile makers, and Nasa.

Biscaye tells CNN that many of the student engineers that work on the VBB-3 have moved on to major companies, like Ford and Nasa. The engineers are taking their innovative designs far beyond motorsports, and say the technology can apply to advancements not only in land speeds, but in electric and 'green' vehicles.





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97 X CALB 60 AH Cells, 19 Kwhr Batt Pack
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Contact Dave Crow, (619) 846-5358 (cell)
deekcrow@yahoo.com
\$3,900 or OBO



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) _____

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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

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- 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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