

# NORTH BAY CHAPTER



**Electric Auto Association**  
Promoting Electric Vehicles Since 1967

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## CONTENTS

This Month's NBEAA Meeting.....	1
Future NBEAA Meetings.....	1
Local EV Events.....	1
EV News.....	2, 3
Update on Charging Stations in the North Bay.....	4

## THIS MONTH'S NBEAA MEETING

October 10<sup>th</sup>: First, a review of Drive Electric Day 2015, then a presentation on the 2015 WAVE EV “rally” or travelling EV “Show & Tell”. The vehicles (and people) involved along with the effectiveness of this type of Show & Tell.

## FUTURE NBEAA MEETINGS

### FUTURE MEETINGS:

November 14<sup>th</sup>: A review of the current status of public charging. This will include what it costs to charge at various types of public chargers as well as a review of the chargers in the Bay Area and beyond.

December 12<sup>th</sup>: An open discussion of what the NBEAA should concentrate on in 2016. This would include the current status of EVs in Sonoma County and what should be done to accelerate their adoption.

## LOCAL EV EVENTS:

### North Bay Science Discovery Day:

Saturday October 24<sup>th</sup> at the Sonoma County Fairgrounds from 10:30 AM until 4 PM. This is part of the Bay Area Science Festival ([www.bayareascience.org](http://www.bayareascience.org)). The Sonoma County event has drawn 10,000 attendees for the last 2 years. This year, Chris Jones will be showing his converted 1966 Ford Mustang along with a few electrical demonstrations. The overall Bay Science festival has events in several locations and lasts for 17 days.

## **EV NEWS:**

### NRG Energy to Spin Off Charging and Solar Operations:

On September 18, NRG announced a restructuring that transferred its EV charging, eVgo, and solar operations to a separate corporate entity called GreenCo. The restructuring was done for financial reasons and NRG is trying to find new “strategic partner” for GreenCo according to Navigant Research. Navigant Research also reported that it feels that the losses from the solar business were the main reasons for the restructuring. NRG was required to invest heavily in the EV charging business as a result of the settlement of a lawsuit with the State of California. The settlement calls for NRG to install 200 DCFCs and the wiring for at least 10,000 individual charging stations.

### EVs for Police Cars!! LAPD



### PG&E Submits Proposal to CPUC to Revise Net Energy Metering Structure

Referred to as “Net Energy Metering 2.0”, PG&E has responded to a request from the CPUC to submit proposals to support growth in rooftop solar power over the long-term. PG&E feels that there is a need to “rebalance incentives for solar in response to changes in the market while providing a sustainable framework that supports long-term grid investments”. PG&E’s proposal includes a usage-based demand charge and new compensation for the amount solar customers are credited when they deliver power back to the grid. The net impact of the proposed charges, according to PG&E, would be about \$20 monthly for a typical prospective solar customer planning to install a 3.7 kilowatt solar system. Bills for existing solar customers and customers who do not generate solar power would not be affected. Also, bills would be reconciled monthly, replacing the annual true-ups. In an August 3<sup>rd</sup> press release, PG&E claims that “Solar customers would still realize savings of more than 50 percent on their monthly bill.”

### CPUC Halts PG&E’s Plans For Installing Charging Stations

The CPUC has, at least temporarily, put a stop to PG&E’s plans to install 25,000 Level 2 charging stations and 100 DCFCs. The CPUC said “We must consider the requirement to protect against unfair competition and the demonstrated costs and benefits of any utility electric vehicle charging station proposal”. Under its plan, PG&E, proposed to pass on the cost of installing the charging stations to its customers. The proposed increase was \$.70 per month for residential customers.

## **EV NEWS (CONT.):**

### Nissan to Offer a LEAF With 107 Miles of Range in 2016

The 2016 LEAFs will be available with two different battery sizes. The longer range battery will be 30 kWh and have an EPA rated range of 107 miles. The larger battery will be available in the SV and SL models while the S model will retain the 24 kWh battery. The larger battery will weigh 46 pounds more than the 24 kWh battery but is the same size. The drivetrains of the 2016 SV and SL models will be the same as the 2015 models.

### EverCharge's Power Management Will Allow for More Charging in Multi-Unit Dwellings

Installing an EV charging station in existing apartments, condos and other multi-unit dwellings has proven to be a difficult task. Quite often, parking areas in these types of facilities do not have adequate power for an EVSE. The Bay Area firm EverCharge has developed an EV charging solution designed specifically for multi-unit dwellings that intelligently manages charging to get the maximum benefit from a complex's existing power capacity. EverCharge's SmartPower system dynamically allocates power based on vehicle demand. The company says that its system can increase charging capacity up to 10 times through "proprietary power management technology." This would lead to lower installation costs for charging multiple vehicles.

### UC San Diego Testing Smart Charging

Smart charging, in which vehicles, charging stations and the grid are able to communicate with each other in real time, will be necessary in order to avoid overloading local grids and to smoothly integrate EV charging with renewable energy sources. A new pilot project at the University of California San Diego, uses a new type of charging station supplied by German electric utility RWE. The RWE chargers are the first to be certified for a new global standard, ISO 15118, which will be implemented in 2017. The new standard addresses the vehicle-to-grid communication interface, with the aim of creating a coherent system that integrates EVs with the power grid. It can also support authentication, billing, remote diagnostics and other features. 24 RWE Level 2 chargers and 3 DC fast chargers have been installed on the UC San Diego campus, adding to the university's existing 29 chargers. As part of the pilot, UC students, faculty and staff will be offered leases on smart ED coupes that have been built to be fully compatible with ISO 15118.

### 300 kW Charging?

VW brands, Audi and Porsche, have announced that they planning to build cars that can charge with up to 300 kW. Fastned, a charging station operator in the Netherlands, is claiming that they will have charging stations that can supply this much power. Having used the 135 kW Tesla Superchargers dozens of times and manipulating the heavy charge cable, I wonder how they plan to get the power from the charger to the charging port in the car.

## UPDATE ON NEW CHARGING STATIONS IN THE NORTH BAY

New Public Charging Stations. The list, below, shows the recently added charging stations in Sonoma and Marin Counties. I apologize if I repeat one from a previous month. Additionally, most RV parks have 240 volt/50 amp outlets that require a mobile charger with a NEMA 14-50 plug. The RV parks charge a fee for using their outlets. Also note that many hotels and motels make a 120 volt outlet available for guests to use for overnight charging.

- (1) Level 2 J1772 at The Bodega Bay Lodge, 103 Hwy 1, Bodega Bay (no network)
- (2) Level 2 J1772 at The Club at Harbor Point, 475 Strawberry Dr, Mill Valley (ChargePoint)
- (1)Level 2 J1772 at Marina Office Plaza, 2330 Marinship Way, Sausalito (ChargePoint)

Also, several new Destination charging stations. Check the Tesla app for locations.