

Draft Meeting Summary
COG EV Infrastructure Work Group Meeting
November 29, 2011
12:30-2pm

COG Room 1
Washington Metropolitan Council of Governments
777 North Capitol Street NE
Washington, DC 20002

Attendance

Rich Dampman, Enterprise
Clara Reschovsky, COG DTP
Claude Willis, GWRCCC
Daivamani Sivasailam, COG DTP
Nick Ramfos, COG DTP
Mark Hersey, COG DTP
Dave Goldstein, Electric Drive Association Washington DC
Elena Constantine, COG DTP
Emil King, DDOE
Ignacio Ayala, OpConnect
Jeff King, COG DEP
Leah Boggs, COG DEP
*Olayinka Kolawole, DDOE
Stephen Schey, ECotality
Theresa Cusub, DC DPW
Austina Casey, DDOT
Daniel White, DDOE
Tina Schneider, MNCPPC-M
Howard Simons, MDOT
Tony Bizjack, Fairfax County
Cynthia Fondriest, NEVA
* Work Group Chair

Introductions (Chair)

October 18, 2011 Meeting minutes recognized and received with one change - correct the name spelling for Mr. Bizjak.

The Chair reminded participants about the desired outcomes of the workgroup , including recommendations on the role of governments in EV infrastructure deployment. The group has 3 objectives. 1) To develop EV adoption scenarios, 2) to predict locations of public and private charging, and 3) to recommend the number and placement of stations.

Enterprise Rental Car

Mr. Dampman discussed Enterprise perspective on electric vehicles. As part of Enterprise's sustainability commitments, the company is purchasing EVs to add to their fleet where it makes sense. Enterprise's fleet is the largest in the world, totaling approximately 1.25 million vehicles. EV technology is very good. Industry will take it slow at first, then ramp up deployment. The goal will be to drive demand, reduce costs, improve technology. The rental fleet tends to mirror the private fleet. Electricity as a fuel makes good sense since the backbone infrastructure is already there (unlike hydrogen). We also have diverse ways of producing electricity and electricity prices are stable. Electricity will be less expensive and cleaner than gasoline. EV can help us reduce our dependence on gasoline. It may also offer a way to provide capacity for energy storage. It may make sense to have EV charging available at hotels and convention centers. Another area to target is businesses with greater than 5000 employees. Enterprise is considering provide public charging at rental locations. Another area of strong interest is new private/private partnerships. For instance, google has partnered to offer electric vehicles and charging stations to employees for use by the hour.

He referred the group to the Electrification Coalition and their Roadmap. Many corporate leaders are very supportive of electricity as a transportation solution. Delivery operations such as Fedex and UPS are interested too as they often have fixed routes and all vehicles are at the same place at the end of the day. EV Van pools also may make sense.

Solar City

Colin Murchie discussed Solar City's program offering. They offer fully integrated full service energy services. They will finance, design, install, and maintain systems. Solar PV and electric vehicle charging solutions can be done, as well as full building retrofits. They have handled more than 20,000 projections in the residential, commercial, government, and military sectors. They have 1350 employees in 12 states and DC and more than 40 solar communities. They partner with OEMs, including Tesla. They also partner with Clipper Creek. He suggested that the group consider requirements for 220 volts in garages, to consider solar ready home requirements, and to make sure permit costs are not too high (noting \$400 electrical permit represents a very high percentage considering EVSE costs can be around \$1500).

Ecotality Lessons Learned

Stephen Schey presented on Ecotality Lessons Learned. The project assumption is that a rich infrastructure will help with consumer acceptance. Many issues are being considered. He listed a few:

- The California PUC is trying to decide if smart chargers will suffice for second metering.
- There may be a need to start planning for Level 3 charging, larger conduit for different cables due to higher voltage. There is also work on the type of Level 3 connector.
- San Diego is doing a lot of work on multi-family solutions, see the San Diego Long Range Plan on The EV Project website.
- He said inside below grade installations are not ideal if wifi is needed for the smart charger for two way communication.
- Folks are trying to determine the business case. Is there a possibility to earn good returns on access fees?

- LEED points should be considered as part of the planning effort.

Employer Outreach

Nick Ramfos and Mark Hersey discussed COG's work with employers through COG's Commuter Connections program. COG conducts voluntary surveys, and will consider doing more to obtain information on employer plans as it relates to EV. Both paper and on-line surveys are used. COG staff will work with the Commuter Connections team to try to gather additional information about employers plans for EV.

Open Discussion

Several suggestions and observations were made by participants:

- Rich Dampan said fuel prices can really drive demand for EV.
- Howard Simons said that SB176 set up a Maryland Electric Vehicle Council which has 25 public and private members. It is charged with preparing an action plan with focus on how to integrate into the state network, how encourage local/regional actions, and standards for permitting.
- EVs should be added to State Purchasing Lists.
- Suggest that outreach to businesses to get charging policies and promote clean energy use.
- Need more information on pricing models and best placement/signage.
- HB469 Excise Tax Credit
- HB 674 Allow EV Use on HOV
- SB179 Pilot Charging EV low cost at night.
- Interest in better understanding of what is expected from the workgroup, and what questions we'll need answers for.
- Need to coordinate across the various EV planning efforts currently underway.

Wrap-up and Next Meeting Date

- The next meeting will be held on January 17th, 2012.
- Members asked for a summary of issues and recommendations based on the content of the workgroup meetings to date.