



**Electric Vehicles North Texas (EVNT)
Stakeholder Group
Home Recharging Infrastructure Committee
Meeting Notes from January 28, 2010 Stakeholder Meeting**

Committee Leader: Mike McCabe (Reliant Energy)

Next Meeting: February 18, 2010, 10 a.m. CST (NCTCOG Offices – Pecan Conference Room)

Next Meeting Topic:

Committee Members:

Larry Hayashigawa (Aerovironment)


Quincy Holloway (U.S.A. Eagle Carports Inc.)

Chuck Jacobus (City of Mansfield Planning and Zoning Commission)

Comments/Goals

Goals

- Get document that has already been developed by DOE that was mentioned during meeting, review, and be ready to discuss on the 17th (or review together on the 17th)
- Quincy will take lead on developing list of contractors for home installation
- Larry willing to provide some info on the processes that Nissan/Aerovironment are using to reach consumer
- Will wait on many items on the EVNT Program Outline until review of the document mentioned above
- Concern that home installation might not be as streamlined as some comments indicated, since Nissan is the only OEM with an agreement with an installer so far—what will others do? Need consistency.
 - As part of Nissan’s agreement, home is surveyed for recharging infrastructure needs/readiness
 - Need to involve OEMs early to try to get similar “streamlining” passed down to their dealerships
 - Need to include maintenance and support and try to extend those to the recharging infrastructure
- Section 625 of the National Electrical Code (NEC) outlines requirements, etc. for home installation, and J1772 standard that should provide consistency for equipment
- NEC sets standards, but each individual city adopts amendments to the NEC. That could cause issues due to
 - Different permitting processes (i.e. can I get a permit online?)
 - Different lead times (small city can do inspection fast, large city backlogged)
 - different interpretation by city personnel
 - DESIRED SOLUTION: have “regional” process set up through regional code group

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- POSSIBLE EDUCATION PIECE: for installers, checklist of individual steps that would be different for each city
 - EDUCATION PIECE NEEDED: Call meeting of code officials, inspectors from across region to create awareness (Reliant installed a few public access facilities in Houston and when they met with permitting, they didn't know what this stuff was)
 - Group wants to ensure that education gets to homeowner so they don't take a car home thinking they're ready, then it stops the EV transition before it starts because of poor customer experience
 - Need to involve transmission company in this group (i.e. Oncor) to ensure that no issues with lots of recharging
 - SmartGrid and Smart Charging implications
 - From retailer side, there is thought to leasing recharging infrastructure and possibly also batteries; also, will be doing varying pricing rates
 - In terms of identifying infrastructure needs where buildings need to be brought up to code, Aerovironment indicated that there are certain years that are "thresholds" (i.e. a home built before year x needs to have electrical updated, a home built after is already fine)
 - Need to establish those thresholds
 - Square footage can also be an indicator
 - If possible, map of region that indicates age of homes (and other structures) and/or sq. footage – (NCTCOG – RIS Department) Reliant indicated that such a map would be extremely helpful for their planning efforts.

Marketing Deliverables Identified:

- Fact Sheets/Quick References on:
 - Home readiness/installation process
 - SmartGrid/transmission issues
 - SAFETY
 - Incentives (tax credits, electricity rates for off-peak charging, LEED credit—are there points in the LEED rating system for having recharging infra. installed)
 - In-Home checklist for the layman to identify capability/know what questions to ask (i.e. year home built, do I have a Jacuzzi, etc.)

Phase I Deliverables:

- Identify issues with utility and communication
- List plug-in vehicle issues for the grid and data management systems
- Outline potential rate models, rebates, and incentives for program

- Develop inventory of building inspection entities in Dallas-Fort Worth 8-Hour Ozone Nonattainment area
- Develop contractor list of plug-in vehicle charging station installation
- Create list of reputable/qualified electricians across region