

**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report**

Contract Number: 582-11-11141-3264

Grantee: GRIDbot, LLC

Report for the Monthly period: 12/01/10 – 2/05/11 **Date Submitted:** 2/10/11

Section I. Accomplishments

Provide a bulleted list of project accomplishments as well as a description of their importance to the project.

- First kick off meeting with representative from City of Houston, Good Company, and GRIDbot, along with several contractors, to begin coordination and provide general information about charging equipment and network operation. Participants were identified, introduced and overall project goals reviewed. The specific site selection for the first installation was confirmed.
- Legal review of subcontract agreements.
- Contracts executed with subcontractors including: City of Houston (COH), Houston Advanced Research Consortium (HARC), and Good Company. Copies have been provided to TCEQ.
- Order for 30 charging stations to be manufactured. GRIDbot provided manufacturers with specification review and technical support.
- Technical support from GRIDbot for the ongoing UL listing tests.
- GRIDbot has provided technical support to the contractors for the electrical plan and installation layout. Electrical plans for the site were obtained from the COH. Contractors have begun engineering review of electrical plans for first site planning.
- Fleet management software has been purchased and the appropriate COH staff assigned to this project to facilitate the COH employee interaction.
- Coordination meeting with HARC to provide input on data sources and project timeline.
- Coordination meeting with COH fleet management team regarding vehicle purchases/leases, fleet management software, signage, and project timeline.
- Initial submission of data collection and modeling plan by HARC.
- Initial design selection for signage for the COH EV fleet program to be used on signs and vehicles.
- Initial draft of installation manual completed and circulated to subcontractors for comment.
- Setup of reporting and book-keeping procedures for grant activities and reimbursement.

Indicate which part of the Grant Activities as defined in the grant agreement, the above accomplishments are related to:

Task 1: Planning and Design – all activities under Task 1 have been initiated and are in progress. In addition, Task 2.3.4 has been initiated.

Section II: Problems/Solutions

Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project

As expected with new technologies, the plan continues to evolve and some changes will be expected. The vehicle delivery has been delayed by Nissan and the City of Houston is working with them to confirm availability and timing. The UL Listing tests are taking longer than expected, but are expected to be completed in February.

As the engineering reports are completed we expect there will be changes to our initial plan, but likely will simplify the installation and reflect savings. The City of Houston has suggested that security cameras be added to the row of parking areas with the charging stations.

Proposed Solution(s): Report any possible solution(s) to the problem(s) that were considered/encountered

We will be working with TCEQ on an updated timeline that will reflect the changes in the delivery that will enable successful completion of all the tasks proposed. We are getting a bid on security cameras, which we would expect could be included without any additional funding needed.

Action(s) Conducted and Results: Describe the action(s) taken to resolve the problem(s) and its effect

These changes will be outlined and reported as soon as the data is collected.

Section III. Goals and Issues for Succeeding Period:

Provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen

- Completion of UL testing and certification.
- Updated timeline will be prepared.
- Complete necessary mechanical and electrical engineering plans to apply for permitting of the first site. Schedule coordination with COH for the site installation.
- Working with COH, HARC and GCA to continue to define data collection requirements and scenarios, including driver experience/data input requirements, fleet management software data collection, and onboard data collection.
- Contractor to design project database and database collection interface defined with the above input.
- Draft protocol for Fleet Management system, reservations, and charging procedures with the COH staff. Develop educational materials for employees with access to EV Fleet.
- Identify security needs for the site, customer feedback channels and other user support systems.
- Order wheel barriers and signage for the EV area.
- Manufacturing, assembly and testing completed of 30 stations
- Permitting and Legal support for permitting process if needed
- Continued reporting of progress and deliverables.

Date: 2/10/11

Authorized Project Representative's Signature

NOTE: *Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*