

**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:** 4/7/2012 – 5/6/2012 **Date Submitted:** 5/6/2012

**Section I. Accomplishments**

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

- In April 2012 the March 2012 Monthly Progress Report and Financial Status Report were prepared and submitted.
- In April 2012 the Task 4 Deliverable Report was prepared and submitted.
- The City of Houston (COH) continues to work on getting the entire fleet of cars assigned and dispatched for use. This includes assignment of drivers with insurance, assignment of parking fees, vehicle licensing and inspection, and application of city fleet identification decals. To date, eight (8) additional cars are showing charging activity, so this is taking longer than expected.
- COH Maintenance Staff installed the restricted parking and electric charging signs for installation for the Phase 2 location, known as Row G.
- Monthly data continues to be analyzed by the Houston Advanced Research Center (HARC), including compiling summary data on charging activity by station and by vehicle.
- Good Company continues to interact with COH staff to obtain information and feedback on the user experience.
- GRIDbot made a service call to respond to some “ground faults” in three units. All three were repaired and are back in service. Cause of these is being considered but may be as simple as loose wire connections at the time of installation.
- COH Fleet Management has purchased a fleet management tool and reservation system, but has decided to wait to put it into service until after our demonstration is completed. The radio frequency identification (RFID) key-fobs will need to be replaced with some other user-identification. GRIDbot will continue to work with the staff to find the best solution to work with this system and provide the charging and vehicle use information. Information sharing and project coordination continues with representatives from COH, Good Company, HARC, GRIDbot, and TCEQ to provide input on data collection and assessment.
- Staff continues to report any questions or issues with either the charging stations or the vehicles to Good Company. GRIDbot has followed up with solutions or answers on each occasion.

*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 completed.
- Task 2: Site Installation and Data Collection – all activities under Task 2 have been completed.
- Task 3: Interim Evaluation of Site - all activities under Task 3 have been completed.
- Task 4: Site installation and Data Collection of Site 2 – all activities under Task 4 have been completed.
- Task 5: Data Collection and Analysis – 2.5.1 project participants continue to monitor and collect data on the usage and performance of the charging stations and vehicles. GRIDbot is producing a downloadable report to the Fleet Management Department on a monthly basis.
- Reporting continues to meet the requirements under Task 6.

## **Section II: Problems/Solutions**

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

- The COH Fleet Management's efforts to assign and dispatch the vehicles for use has taken longer than anyone expected. This includes assignment of drivers with insurance, assignment of parking fees, vehicle licensing and inspection, and application of city fleet identification decals.

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

- Review of all user information will have to be based on a smaller sampling for the final report.

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

- We will use whatever information we have to complete the project, including lessons learned. While the sample size is smaller than we had anticipated, the data will be very valuable for future installations or fleet adoption of electric vehicles.

### **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*

- GridBOT will work with Good Company to compile market and commercialization information for the final report.
- Data collection will continue on all vehicles, with final analysis compiled for the final report, including analysis of vehicle charging, vehicle use, and emissions modeling.
- Monthly Fleet Manager Reports will continue to be produced by GRIDbot to report vehicle charging sessions including length of time charging, electrical consumption, and time of day. This is in addition to the online “look-up” option we have provided the COH Fleet Management Staff.
- Good Company is compiling market data and electric vehicle adoption data to include in the final report.

*Date:* 5/6/2011

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*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.*