

**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: 8/09/2011- 9/08/2011 **Date Submitted:** 9/08/11

Section I. Accomplishments

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

- In August the July monthly Progress Report and Financial Status Report were prepared and submitted.
- Information sharing and project coordination continues with representatives from City of Houston (COH), Good Company, Houston Advanced Research Consortium (HARC), GRIDbot, and TCEQ along with several contractors, to provide input on updated planning, data collection, and installation and keep the project on line.
- GRIDbot completed all specification review and modification and has installed updates to the installed units. The remaining 14 units will be updated at the manufacturer prior to installation.
- Good Company continues to collect information to include in the owner's manual which will be provided to the COH before the end of the project.
- COH maintenance staff has the restricted parking and electric charging signs for installation for the Phase 2 location.
- Security cameras are installed and fully functional, with on-screen 24 hour observation by both the Parking Management and the Parking Security Departments. Security dispatches staff to investigate if they see anyone in the area that should not be there.
- HARC has established access to Nissan's onboard systems and will be able to incorporate this information from the vehicles into their modeling.
- The first two Nissans and four of the PHEV Prius' have provided the opportunity for interim tests on the equipment and data collection. Data push to HARC for review and modeling has been coordinated with GRIDbot.
- COH is ready to release a new RFP for 23 more electric vehicles to be purchased. Funding for these purchases has been allocated to the Fleet Management Department.
- Good Company continues to interact with COH staff to obtain information and feedback on the user experience.
- Good Company purchased 6 "out of order" hoods for the units, for the Parking Management to use in case any unit is ever disabled. They will be kept in the Parking Management office so that they are readily available. (Note: To date we have not experienced any units being out of order.)
- In-service training for various department staff has not been scheduled by the various COH departments, but we continue to work with them to facilitate this training.
- Press event has been coordinated with the Mayor's office and other EV vendors to be held on September 8, 2011. We will be demonstrating a GRIDbot station, providing equipment information and materials, highlighting the project with the COH, and will be available for a drive-tour of the site following the event. TCEQ will be recognized for funding the project at this event and in any press releases.

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 – Site 1 - 2.2.1 installation completed, 2.2.2 materials have been developed for COH staff, and 2.2.3 vehicles have been identified to relocate to the fleet charging location and the City has taken delivery of the first two Nissan LEAF's. They have assigned 5 drivers to each LEAF at this time due to insurance limitations. The initial tests of the data collection equipment 2.2.4 have been done - requiring some adjustments to data collection and sharing. User Feedback from vehicle and station users 2.2.5 continues to be directed to Good Company for documentation or solutions.
- Task 3: Interim Evaluation of Site 1 - 2.3.1 costs have been compiled for analysis, 2.3.2 interface changes have been implemented due to policy changes by the COH fleet management team, and 2.3.3 the second installation site location has been identified. Information is being compiled 2.2.4 to include in the operation or owner's manual.
- Task 4: Site installation and Data Collection of Site 2 – 2.4.1 the second site was included into one permit with one site plan. This site has had site preparations made for the next 14 GRIDbots to be installed.
- 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

- a) Due to the tsunami and earthquake in Japan we experienced a delay in the charging cords for the final 14 units to be completed and delivered.

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

- a) The manufacturer has completed all assembly of the units and will be able to deliver as soon as the charging cords are available. He will notify us when they are in route, so that we can schedule the installation as soon as possible.

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

- a) We believe that these parts will be delivered in time for the installation to be completed well ahead of the delivery of the new 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

- Press Event to be held on September 8, 2011.
- We are scheduling for Phase 2 installation to precede the delivery of additional electric vehicles. All conduit, breakers, wheel-stops and security cameras are already in place, so the final installation only includes wiring and installation of the 14 charging units.
- Troubleshooting instructions and basic training will be provided for the COH security staff and maintenance staff that work in the garage, as well as Fleet Management Staff. This information is being compiled by Good Company.
- GRIDbot will finalize installation diagrams and materials, and establish best practices and relative costs for future projects.
- GRIDbot will work with Good Company to develop a COH owner's manual that includes installation, operation and electrical drawings.
- HARC will be purchasing and installing additional data-loggers.
- Data collection will continue on all vehicles with access to GRIDbot chargers.
- GRIDbot will finalize the Fleet Manager Reporting template and review with the COH staff to be sure it addresses all their reporting and operational needs.
- Continued reporting of progress on this project.

Date: 9/08/11

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.*