



ARRA REPORTING FORM: OEQ

1. Name: David Jacobs
2. NAICS or NTEE – NPC code(s) for activities performed this reporting period:

C01, C02, C03, C05.02, C06.06, C06.02, C06.03, C06.07, J01, L03, L03.4 L06, S02.03, S02.03, S03.03, T03, T04, V03.02, W03, W08, W09.05

(A searchable code list is at: <http://nccsdataweb.urban.org/PubApps/nteeSearch.php?qQry=all-core&codeType=NPC>)

3. Reporting Period (check the appropriate one)
 1st Quarter (October – December) 2nd Quarter (January – March)
 3rd Quarter (April – June) 4th Quarter (July – September)

4. Total Hours Worked: 373 ARRA Hours Worked: 187.50

5. A) Impact Metrics: **Renewal Energy meetings:** 16 meetings with waste to energy companies during quarter.
(Cost savings, GHG reduction, etc.)

B) Optional Metrics: **Committee meetings attended:** 11 during quarter.
(Grants, market development, policy, workshops, standards, procurement)

6. Description of work/grant activities completed during this quarter.

During 3rd Quarter 2011 a total of 106 meeting were attended. Besides weekly staff meeting with the City Manager/Deputy CM other meeting included:

RENEWABLE ENERGY

ASHA

- ASHA is a renewable energy company that is interested in introducing a waste to electric energy generation project to the city. We have had a few discussions with the company and they will be offering a terms sheet for our review in the 3rd quarter. We will review the offer within the 4th quarter.

Powerstream

- Powerstream has created a letter that the city is requested to be sponsor sent to TCEQ.
- Powerstream advises they have received a \$20M grant from the DOE for furthering their technology that focuses on turning wastewater to electric power.



NRG

- NRG has communicated with the city on a few occasions throughout the quarter and continues to offer a partnership between their organization and the city for furthering electric charging infrastructure throughout the region.

GS Renewal Energy

- The start up company has discussed several opportunities with the city during the 3rd quarter from street light retrofits to partnering with Powerstream on their project offering.

GRANTS

- NCTCOG Rounds 1 and 2 agreements signed by both parties and originals are in City Secretary's office.
- Lease agreements have been completed on 4 GM Volt plug-in hybrid vehicles and the vehicles have been delivered to the city. The city will locate the vehicles to 4 city departments in the 4th quarter to perform routine departmental missions as well as demonstrating the new technology.
- Received NCTCOG Round 3 notification that has placed our application on waiting list.
- Submitted propane grant request to the Texas Railroad Commission for 10 vehicles and infrastructure. Request was approved. In process of developing a contract with the Railroad commission that is expected to be completed within the 4th quarter.
- SCR project - 1 vehicle has been retrofitted and in service. The 2 remaining vehicles will be completed in 4th quarter. Also, in the 4th quarter data logging will be done on the 3 vehicles to determine reductions from a baseline that was previously taken.
- Awaiting EPA DERA notification for grant application covering 22 city vehicles toward DOC and DPF retrofits.
- Awaiting notification on grant application for 50K renewable energy technology demonstrations (SECO).
- ONCOR grant application for 50K match funding toward making energy efficiency improvements to city facilities served by Reliant Energy is moving forward with an energy audit being completed 3rd quarter by Nexant. Results of the audit should be available in the 4th quarter.

PROJECTS

- Single stream recycling rollout to city departments 85% completed.
- Printer cartridge recycling project began city wide in 3rd quarter. The goal is to coordinate the delivery of these used cartridges to one central location and auction the units at various times during the year.
- OEQ developed a power point presentation and presented to Prosolia, a solar company with offices in Europe and US and discussed activities in our community.
- OEQ developed a talking memo on the features of the GM Volt that will be distributed to the city departments that are receiving the GM Volt vehicles. The script will help all that drive the vehicles to promote a unified message regarding the Volt's features.
- OEQ coordinated a partnership between the city's Animal Control and Firewheel Town Center toward pet adoptions. The kickoff event is April 9th at the Town Center. This is



their kickoff event toward an ongoing adoption partnership at the site and is in conjunction with the Town Center's Easter festivities.

- OEQ invited to meet with Texas AM University (Dr. Jacobsen) at Dallas Extension Office to exchange information on Garland's downtown project and learn about their Living Lab project.
- Completed Ecotality charging infrastructure site tours to determine areas for placement of grant funded electric charging infrastructure in Garland.
- OEQ attended EV Training at Oncor (Dallas) on 05/03
- OEQ completed 2010 SB12 and House Bill 3693 reports. House bill reporting is available at www.garlandgoesgreen.com
- OEQ completed (3) North Central Texas Council of Government grant mandated monthly reports during 3rd quarter.
- OEQ submitted an article on the GM Volt acquisitions to Garland's City Press, a community newsletter that is sent to all residence and businesses in the city 6 times per year.
- OEQ proposal to relocate to retail office space in downtown Garland with broadening function was approved by City Manager and scheduled to begin in 4th quarter 2011. (see Business Plan excerpts)
- OEQ developed a pilot project with a local distributor of Big Belly Trash compactors during the 3rd quarter. Results of the pilot should be available in the 4th quarter report.

RESEARCH

- Secondary Cementitious Materials (SCM) Research Project is ongoing and locating funding sources remains the primary activity.
- Torrefaction project continues to be considered. Site visit to Regional landfill completed with CPY and BER representatives. City owned property near rail lines evaluated.

COMMITTEES UPDATE

A) Alternative Fuels/Vehicles

- Alternatives Fuel and Vehicle draft plan. Plan remains in draft form and continues to be developed.
- Propane project with the Texas Railroad Commission approved to move forward.

B) Green Team

- 85% complete on single stream recycling rollout in city departments.

C) PIO Committee

- Discussion of city's Expo event in September.

D) Healthy Living Expo committee

- Ongoing discussion and event planning. OEQ will offer a "Ride and Drive" at the event for interested visitors. Interested visitors will be able to view and drive the new GM Volt. Event is scheduled for the 4th quarter 2011.

E) Energy Audit

- Final report under review by city management for possible project development.

F) Greenhouse Gas Inventory

- See ARRA Sustainability Plan 3Q Report

G) Sustainability Plan

- See ARRA Sustainability Plan 3Q Report



H) Urban Sustainability Directors Network (USDN)

- OEQ Program Manager requested to once again serve on the Grant Awards committee. A total of \$100,000 will be allocated through this period's process.

7. Dollar amount of work/grant activities completed during this quarter.

- \$8560.25 (per Finance)

8. Description of public awareness / marketing / training activities completed during this quarter. Attached one hard copy and one electronic copy of any materials produced (# people attending/workshop, # workshops held).

- GM Volt article published in City Press.
- OEQ program activities power point developed for discussion with Prosolia, 4 people attended.
- Texas AM discussion of Garland's downtown project, excerpts from Business plan presented from overview, 12 people attended.
- GM Volt talking points memo developed for coordinated messaging, 4 city departments will have a copy to use when discussion features of the Volt.
- Program Manager participated in 6 webinar training sessions.
- Test drives coordinated through OEQ for GM Volt drive and charging demonstrations, 15 city employees participated during 3rd quarter.

9. Products produced or technology transfer activities accomplished during the reporting period.

- Continued refinement and development of OEQ's Intrasite (internal city communications process) to assist all in getting updates on activities underway in the Office of Environmental Quality.
- GM talking points memo developed for distribution.
- City Press article written and published.
- Power point developed on current OEQ activities for discussion with solar company.
- Completed phase 2 city Internet/Intranet development activities.
- GM Volt, full body vehicle wrap renderings for 4 vehicles developed during 3rd quarter.

10. Lessons Learned

- Developing a vehicle lease agreement for city use is a time consuming and difficult activity.
- Using the term "sustainability" is becoming more difficult to use in the day to day activities of the OEQ due to Agenda 21. The city will use another term "Healthy Choices" in description of our activities moving forward in our strategic internal plan development.

11. Discussion of work/ grant activities to be completed next quarter



- Continuing Waste to Energy discussions to further talks toward a possible proof of concept agreements signed between the city and one party featuring wastewater to energy.
- Notice of approval/denial of DERA application for city vehicle retrofits with DOC and DPF filters.
- Completing installs of SCR equipment to 2 fleet vehicles that will significantly reduce NOx and PM on these vehicles.
- Execution of the Texas Railroad Commission propane grant for up to 10 vehicle conversions and propane infrastructure development at our Forest Lane Refueling complex.
- Installation of 4 electric charging stations through an Ecotality grant in connection with the recent GM Volt acquisitions.
- Acquisition and installation of 3, North Central Texas Council of Governments grant funded electric charging stations (1 DC fast charger level3 and 2 level2 chargers) at our Gasoline Alley Refueling complex.
- Consideration toward signing a lease for new office space for OEQ in downtown Garland.
- Ongoing municipal “healthy choices” planning efforts for inclusion within City’s Comprehensive Plan.