

ARRA REPORTING FORM: OEQ



1.	Name:	David	Iacobs

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: \ \ \underline{http://nccsdataweb.urban.org/PubApps/nteeSearch.php?gQry=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) X

- 4. Total Hours Worked: 430 ARRA Hours Worked: 215
- 5. A) Impact Metrics: **Renewal Energy meetings**: 22 meetings with waste to energy companies during quarter.

(Cost savings, GHG reduction, etc.)

- B) Optional Metrics: **Committee meetings attended**: 14 during quarter. (Grants, market development, policy, workshops, standards, procurement)
- 6. Description of work/grant activities completed during this quarter.

During 4th Quarter 2011 a total of 131 meeting were attended. Besides weekly staff meeting with the City Manager/Deputy CM other meeting included:

RENEWABLE ENERGY

ASHA

• ASHA has not presented offer sheet yet for the city's review but several discussions have occurred between city and ASHA.

Powerstream

 Powerstream has met with TCEQ during quarter and continues to discuss plans with city to develop a project that will convert treated water to electricity and producing a higher grade purified water as well as an output.

GRANTS

• NCTCOG Rounds 1 and 2 reimbursement forms were completed by city during 4th quarter and await final approval by NCTCOG.

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- Four (4) GM Volts have been acquired by the city during the 4th quarter as part of Round 1 and 2 funding from NCTCOG.
- Acquisition of an Ecotality EVSE grant (though DOE) for 4 stations totaling about \$9,000.00 in grant funding.
- Completed RFP for consolidation of propane gas purchase as well as selecting 2 locations in the city for acquisition of propane filling equipment. This step is a critical first step prior to our plan to acquire 10 propane trucks in first quarter 2012.
- SCR project All 3 vehicles have been fitted with SCR equipment in 4th quarter 2011.
- Failed to receive EPA DERA grant application that would have covering 22 city vehicles toward DOC and DPF retrofits.
- Still 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 continues to move forward in 4th quarter.

PROJECTS

- Completed installs of SCR equipment final vehicle for a total of to 3 fleet solid waste vehicles that is expected to significantly reduce NOx and PM on these vehicles.
- Single stream recycling rollout to city departments is 100% completed.
- Printer cartridge recycling project began city wide in 3rd quarter continues to receive recyclable goods. 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.
- Locations were finalized in 4th quarter 2011 for four (4) EVSE stations in the city. An additional 10 locations will be evaluated for EVSE placements during first quarter 2012.
- OEQ completed 3 monthly status reports for NCTCOG.
- OEQ is about to complete a pilot project with a local distributor of Big Belly Trash compactors during the 4th quarter. Results are pending.

RESEARCH

• Secondary Cementitious Materials (SCM) Research Project is ongoing and locating funding sources remains the primary activity.

COMMITTEES UPDATE

- A) Alternative Fuels/Vehicles
 - Alternatives Fuel and Vehicle plan completed.
 - Propane project with the Texas Railroad Commission placed on hold until the 2012 model year. City wants to acquired OEM models rather than convert existing units.
- B) Green Team
 - 100% complete on single stream recycling rollout in city departments.
- C) PIO Committee
 - A meeting was held of committee members.
- D) Healthy Living Expo committee
 - Event completed September 24, 2011. The city's had 3 GM Volts there as well as a Nissan Leaf from a local dealership. Also a Mitsubsihi IMiev was present for viewing and a propane

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truck from Trenton LP was at the event for viewing and driving. Finally, a fleet of UTV's from John Wright and Associates were there for viewing and driving demonstrations.

- E) Energy Audit
 - McKinstry developed final report remains under review by city management for possible project development.
- F) Greenhouse Gas Inventory
 - See ARRA Sustainability Plan 4Q Report
- G) Sustainability Plan
 - See ARRA Sustainability Plan4Q Report
- 7. Dollar mount of work/grant activities completed during this quarter.
 - \$10,368 (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 "NeighborhoodGo", a Dallas Morning News publication as a promotion for the September 24th event.
 - Program Manager participated in 15 webinar training sessions.
 - Test drives coordinated through OEQ for GM Volt drive and charging demonstrations, 35 city employees participated during 4th quarter.
- 9. Products produced or technology transfer activities accomplished during the reporting period.
 - Coordinated the development of 2 energy audits through Oncor Energy and Nexant at City
 Fire department Administration and Duck Creek Wastewater treatment facility. Results of
 audits will be used to consider grant options through Oncor Energy.
 - Ongoing 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.
 - Published article in international water journal (EverythingAboutWater) 2011.
 - Assisted a citizen that volunteered at Healthy Living drive event to produce a report on six months of his driving habits in his GM Volt.
 - Completed a Healthy Living drive event survey.
 - Ongoing development of city Internet website using Garland Goes Green as a branded page.
 - Development of a renewable energy process for prospective private companies to follow as they engage with the city.
 - OEQ developed a brochure on the features of the GM Volt that will be distributed to the city departments that are receiving the GM Volt vehicles and was recently distributed to visitors to the city's Healthy Living Expo.
 - Completed draft of Office of Environmental Quality interactive map for City Internet project.
 - GM Volt full body vehicle wraps completed on 3 of 4 vehicles during 4th quarter.





10. Lessons Learned

- When planning a drive event the location of the course will ensure maximum participation.
- Ability to have our local citizens to assist the city in its marketing of plug-in hybrid vehicles is a successful approach.
- 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.
 - Re-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 four (4) electric charging stations through an Ecotality grant in connection with the recent GM Volt acquisitions. An additional 10 locations will be evaluated for EVSE placements during first quarter 2012.
 - Installation of a Level 3 EVSE as part of a North Central Texas Council of Governments NCTCOG grant funded electric charging stations project. The DC fast charger will be purchased from AeroViroment in October 2011 and will be deployed at the Gasoline Alley Refueling complex. The city decided to forego an award of 2 level2 chargers from a NCTCOG Round 2 funding cycle due to the acquisition of the Ecotality grant.
 - Consideration toward signing a lease for new office space for OEQ in downtown Garland.
 - Completion of the Green house gas Inventory report.
 - Vehicle wrap on final GM Volt for Garland Power/Light department.
 - Evaluation of waste pilot project with Big Belly for future deployments.
 - Consideration toward developing a pilot project for LED street light testing (GreenStar and Garland Power/Light)
 - Three monthly NCTCOG status reports.
 - Completion of the Healthy Living Sustainable Report, an internal city planning document.
 - Ongoing municipal "healthy choices" planning efforts for inclusion within City's Comprehensive Plan.
 - Installation of propane fueling facilities at 2 city facilities (Forest Lane and Gasoline Alley). The facilities will feature 2,000 gallon tanks at both locations, wireless automatic refill notification, connection to city's fleet master reporting system and refill infrastructure for small canister bottles servicing Parks department mowers and Warehouse department forklifts.
 - Acquisition of up to 10 propane pickups for various city departments.