



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: 363 ARRA Hours Worked: 242.5

5. A) Impact Metrics: **Renewal Energy meetings:** 8 meetings with waste to energy companies during quarter.
(Cost savings, GHG reduction, etc.)

 B) Optional Metrics: **Committee meetings attended:** 7 during quarter.
(Grants, market development, policy, workshops, standards, procurement)

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

 During 2nd Quarter 2011 a total of 109 meeting were attended. Besides weekly staff meeting with the City Manager/Deputy CM other meeting included:

RENEWABLE ENERGY

ASHA

- ASHA has moved forward on multiple fronts. They have engaged their law firm to begin drafting an agreement to address the terms outlined in the LOI in detail, as well as the numerous items involved in the Garland-based operations that are not included in the LOI.
- They have had another round of discussions at the State level to more fully understand their permitting requirements and timelines.
- They have been pleased to learn that there are numerous equity investors with interest in the type of power projects ASHA is building, and as a result they are shopping the Garland-based project to some new investors beyond the group in Houston in hopes of negotiating a better set of terms for the equity portion of the financing.
- ASHA assigned a project manager to work specifically on this plant location and have been getting him up to speed. After we execute the definitive agreements involved, New PM will be driving the project through the EPC stages.
- ASHA interviewing EPC firms. Trying to make a final selection and engage an EPC partner by the end of the month. This is an important next step for us because both our permitting and funding efforts will need technical and engineering data provided by a 3rd party. If we



arrive at acceptable terms with the firm that is currently our first choice, we will have an internationally recognized, multi-billion dollar partner for the construction of our plants.

Additionally, we have engaged an Investment Banking firm that is working on our overall funding plan. Once that package is complete, they will also work with us to raise the equity capital that is required by the lender. It is our plan to complete the equity raise in the 2nd quarter and finalize the debt portion in the 3rd quarter. The debt piece takes longer because we are using federal loan guarantee programs and, of course, the federal government doesn't do anything too quickly.

It is our objective to be under construction before the end of the calendar year. Working in reverse, please help us understand any approval processes on your end. We should work together over the next couple of weeks to arrive at a more detailed timeline for the balance of 2011.

Powerstream

- Discussion with Powerstream regarding options and moving PPA forward. I am looking into various options for the output water. Powerstream communicated that NTWD is not interested in output water so they are looking at other options as well.
- New Powerstream PPA for 10 MW provided for review.

NRG

- Met 02/15/11 with NRG representative, GPL to discuss their turnkey electric vehicle recharging proposal.

GS Renewal Energy

- Talked with GS Renewal Energy. They are in early stage concept for acetic acid production plant. Project the size of the facility to create \$3 to \$7M in sales. Discussed a possible presentation for time in the future.

Straight-UP Renewables

- Met with Straight-UP Renewables and received products demonstrations.

GRANTS

- NCTCOG Rounds 1 and 2 agreements and notice to proceed paperwork provided to the city for review.
- Received Round 3 notification to the city that we are on a waiting list for propane vehicle retrofits and infrastructure submissions.
- SCR project - Parts received and ready for install at Cummins Southern Plains location during 3Q.
- Awaiting EPA DERA notification for grant application covering 22 city vehicles toward DOC and DPF retrofits.
- Making a grant application for 50K renewable energy technology demonstrations (SECO).



- Considering a NCTCOG Off-Road Vehicle grant for various city and landfill vehicles.
- Considering an ONCOR grant application for 50K match funding toward making energy efficiency improvements to city facilities served by Reliant Energy.

PROJECTS

- Single stream recycling rollout to city departments 80% completed.
- Program Manager coordinated opening discussion toward developing a joint venture between the city and Firewheel Town Center for the development of a 1.2 acre dog-park at the town center.
- Program Manager coordinated opening discussion toward developing a joint venture between the city and Firewheel Town Center for the development of ongoing animal adoptions and low cost shot clinics at the town center.
- Developed OEQ Business Plan for communicating need of OEQ to relocate to retail office space in downtown Garland with broadening function.

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. Sets movement forward for considering future grants.
- Consideration toward making Off-road vehicle grant application through NCTCOG.

B) Green Team

- 80% complete on single stream recycling rollout in city departments.

C) PIO Committee

- Meeting to discuss new city brand.

D) Healthy Living Expo committee

- Meeting scheduled for March 23, 2011.

E) Energy Audit

- See ARRA Sustainability Plan 2Q Report

F) Greenhouse Gas Inventory

- See ARRA Sustainability Plan 2Q Report

G) Sustainability Plan

- See ARRA Sustainability Plan 2Q Report

H) Urban Sustainability Directors Network (USDN)

- No activity beyond serving on awards committee.



7. Dollar mount of work/grant activities completed during this quarter.
 - \$5,808.62 (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).
 - Program Manager participated in 3 webinar training sessions.
 - Test drives coordinated through OEQ for Mitsubishi IMEV, 20 city employees participated.
9. Products produced or technology transfer activities accomplished during the reporting period.
 - Refined Intrasite (internal city communications process) to assist all in getting updates on activities underway in the Office of Environmental Quality.
 - Program Manager developed information to submit in KGB application for the Governor's Community Achievement Award (GCAA) on behalf of the City of Garland. Award recognizes the efforts of communities that are working to improve the Texas environment. The winning city in our population category will win a \$310,000 landscaping project from Texas Department of Transportation (TxDOT). Waiting for clarifications from Glenna in EWS.
10. Lessons Learned
 - Locating and developing partnerships with energy and transportation consulting firms when submitting grant applications is vital to the success of the gaining the funds. The advocacy is very important in the grant acquisition.
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.
 - Determining completion date for installs of SCR equipment to 3 fleet vehicles that will significantly reduce NOx and PM on these vehicles.
 - Arrival of GM Volts as part of NCTCOG Round 1 and 2 grants.
 - Consideration toward signing a lease for new office space for OEQ in downtown Garland.
 - Results of meeting between OEQ and EPA for funding opportunities.
 - Ongoing work with electric infrastructure vendors toward developing downtown infrastructure partnership.
 - Ongoing municipal sustainability efforts included within City's Comprehensive Plan.