

Living, Working, Growing Green ...



Stimulus Allows Gwinnett to be Pioneers in Positive Energy

Gwinnett County is leading the region in energy efficiency projects. Through funding provided by the American Recovery and Reinvestment Act (ARRA) as administered by the Georgia Environmental Facility Administration (GEFA), the Gwinnett County Department of Water Resources (DWR) is afforded to build three projects that contribute to environmental preservation.

No Business Creek Tunnel Project

- Project Team:** Tyler Richards, Project Owner
Adam Minchey, Project Director
Luiz Cavalcanti, Project Manager
- Description:** This project supported the strategy to deactivate the Jack's Creek, No Business Creek and Big Haynes Creek Water Reclamation Facilities which are now inactive. The remaining scope of this project includes 16,000 feet of 12 foot diameter equalization tunnel. The environmental benefits include minimal surface clearing, no stream crossings, and infrastructure improvements for the preservation of natural water resources.
- Status:** Construction is on schedule for completion July 2010.
- Total Project Cost:** \$55 Million
- Funding:** Project funding includes a \$6 Million loan and a \$4 Million subsidy authorized by the ARRA.

Gas to Energy Project

- Project Team:** Srinivas Jalla, Project Owner
Adam Minchey, Project Director
Dan Shaw, Project Manager
- Description:** The project is part of the Department of Water Resources' continued focus on reducing operating costs through sustainable solutions. The project allows the F. Wayne Hill Water Resources Center (FWHWRC) to take advantage of the excess biogas generated from the anaerobic digestion process. The proposed cogeneration system will convert biogas to electricity and heat for use at the plant. This renewable power helps DWR reduce its operations cost by meeting a portion of FWHWRC power and heat demands.
- Status:** The project has been recently awarded and is anticipated to enter pre-construction in October 2009.
- Total Project Cost:** \$5.5 Million
- Funding:** The funding includes a \$2 Million loan and a \$3 Million subsidy using funds authorized by ARRA.

Fats Oil and Grease (FOG) Project

- Project Team:** Srinivas Jalla, Project Owner
Dan Shaw, Project Manager
- Description:** The majority of sewer spills in the metro area are caused by FOG build up in the sewers. FOG also has a high energy value when burned or digested. The proposed FOG receiving station will provide a safe disposal option for areas business and increase the digester gas production at the F. Wayne Hill Water Resources Center. The FOG receiving station would not only increase the power and heat generated at the FWHWRC, but also reduce FOG related issues in collection system. This "green" solution to FOG disposal will help offset some of the energy costs at FWHWRC.
- Status:** The proposed project is in the planning phase.
- Funding:** The funding includes a \$3.5 Million grant authorized by ARRA.