

## **City of Tallahassee Federal Stimulus Projects** (Organized by categories of Congressional Proposal)

### **Utility and Environment Service Area**

- **Energy Efficiency Grants and Loans for Institutions** -- Energy sustainability and efficiency grants and loans to help school districts, institutions of higher education, local governments, and municipal utilities implement projects that will make them more energy efficient
  - **Schools on Solar Program:** *Estimated Cost: \$5 million; Estimated Jobs: 150* The program would significantly expand the City's existing Schools On Solar program, providing a combination of Solar Photovoltaic Electric, Solar Domestic Water Heating, Solar Area Lighting, on-line energy monitoring software, and a package of educational materials/curriculum for each school (about 60) in the Leon County system. Program provides early learning opportunities related to renewable energy systems for all school grades. Purchase and installation of solar equipment would provide 150 green jobs and be of sufficient scale to attract solar businesses to the local market, where they would be expected to seek additional customers beyond the schools. Jobs are high tech in solar installation, electrical, software development, and education.
  
- **Loans to Help Communities Upgrade Wastewater Treatment Systems**
  - **Lake Bradford and TP Smith Sewer Treatment Plant Renovations:** *Estimated Cost: \$160 million; Estimated Jobs: 100* In January 2008 the Florida Department of Environmental Protection issued new operating permits for the City of Tallahassee's two wastewater treatment plants. The permits included an Administrative Order to construct major advanced wastewater treatment (AWT) improvements at both plants within an aggressive six-year phased schedule. The chief purpose of the proposed AWT improvements is to significantly reduce the nitrogen in the treated wastewater discharged at the Southeast Spray Field disposal facility and thus minimize the City's contribution of nitrogen to the Floridan Aquifer that subsequently flows to Wakulla Springs. Over the past decades,

increasing growth in the Florida Big Bend area has resulted in excessive nitrogen loadings in Wakulla Springs. The nitrogen fosters the heavy growth of nuisance algae and other aquatic vegetation that cause degradation of the springs water quality. The enhanced treatment will reduce total nitrogen to 3 mg/l, and further uptake of the nitrogen is expected by the irrigated crops and vegetation at the spray field. The AWT improvements will thereby significantly reduce (by 80-85%) the City's contribution of nitrogen that could leach into the Floridan Aquifer and Wakulla Springs. The AWT improvements will also provide treated wastewater that meets public access reuse standards and can be used in lieu of potable water for high water demand purposes such as irrigation and cooling make-up.

- **36" Force Main Sewer:** *Estimated Cost: \$7.5 million; Estimated Jobs 200* The City wastewater system was dealt a severe blow by Tropical Storm Fay in August of 2008 when the flooding and inflows from the storm caused our 36" Main running along Capital Circle Northeast to fail on three different occasions within a two day period. The Main is now unusable as determined by subsequent testing. The community remains at risk if we approach the next storm season having inadequate capacity to handle storm level flows. Replacement of this Main will cost between \$7 and \$7.5 Million depending on the method used to solve the problem. Slip-lining will be the least costly (\$4 Million) and consists of slipping a smaller (32") pipe inside the existing one, reducing the amount of excavation but reducing the capacity of the line. The additional capacity will be replaced by running a smaller parallel line that will cost \$3 Million. Replacing the line by running a parallel 36" Main will be in the \$7 to above range. This project can be, and should be, started within 2 months. This project will employ between 200 and 250 professionals and skilled laborers and will use manufactured pipe to support the general economy. Local contractors will do all the excavating and other construction work that does not require specialized knowledge unavailable locally.
  
- **Cascade Park Sanitary Sewer Replacement:** *Estimated Cost: \$891,930; Estimated Jobs 12* This work includes removing an existing 8" terra cotta sanitary sewer line that is beyond its design life and replacing it with approximately 3,600 linear feet of new PVC pipe. This project will reduce the high fecal coliform readings in the adjacent stream, enhance the City Sewer System and reduce costs at the Treatment Plant.

- **Reliable, Efficient Electricity Grid:** Research and development, pilot projects, and federal matching funds for the Smart Grid Investment Program to modernize the electricity grid making it more efficient, secure, and reliable and build new power lines to transmit clean, renewable energy from sources throughout the nation.

- **Electricity Grid Updates: *Estimated Cost: \$23.335 million; Estimated Jobs: 30***

Transmission Line, 230 kV tap from Transmission Line 31 to Substation BP5. This project was identified in the city's transmission study and is to engineer, purchase and construct a new 230 kV transmission line to increase reliability by completing another section of a 230 kV loop on the south side of the grid. It has an approved budget of \$9,860,000.

Reconductor a 2 mile segment of distribution line on Dempsey Mayo Road and Miccosukee Road to provide additional capacity and increased reliability to the service area along Centerville Road that is approaching its limit. Approved budget is \$700,000.

Construct a new double circuit distribution line from Substation BP14 into the Killlearn area. Then extend one of the circuits to Bradfordville Road to tie to an existing circuit. Also reconductor another existing circuit to tie to DF 1613. This work is to bring additional capacity and reliability to the Northeastern quadrant of the City's service area that is presently limited to service from only one circuit and extremely limited backup. Approved budget is \$1,700,000.

Transmission line uprating. There are several projects to increase the capacity of the 115 kV transmission system. Included in this is Line 7A, Line 21, Line 2C and Lines 15A, 15B and 15C. These projects will increase system capacity and reliability as defined in the long range transmission plan. Approved budget total is \$11,075,000.

- **Smart Metering and Home Area Network (HAN) Project: *Estimated Cost: \$14 million; Estimated Jobs: 10*** We want customers to be able to monitor their energy consumption and manage their usage preferences with technology that will automatically control appliances with changes in price. This will be accomplished via the integration of advanced software and in-home devices. Effectively, customers will have an energy management system of their own to personally maximize their efficiency and use less demand and energy.



program would lessen the burden of cost of energy to the elderly by providing bill assistance, weatherization, and home repairs for immediate, interim, and long-term solutions. The program target age is 65 years and over. In order to provide an immediate response to rising energy prices, the good Neighbor Program phases in bill assistance with a 25% credit to electric service during high peak electric demand season. The seasons would include: Season 1 – January 2009 – March 2009 (winter); Season 2 - June 2009 – September 2009 (summer); Season 3 - December 2009 – March 2010 (winter), and would allow the elderly to maintain a consistent income, which typically are impacted negatively during seasonal energy use requirements.

The program will provide meaningful assistance both immediately and long-term to utility customers most in need and is structured as follows:

In order to extend the immediate response to a long-term solution to rising energy prices, the good Neighbor Program propose weatherization and efficiency measures. The interim actions can be accomplished in a shorter length of time, and realize long term benefit to the homeowner and include: Priority Energy Audit; Free Ceiling Insulation (up to \$500); Heating and Cooling System Repair (up to \$500); Duct Repair, Coil Cleaning and Refrigerant Leak; Hot Water Leak Repair (up to \$500); and Fully Funded Electric to Tankless Gas Water Heater Conversion (up to 100 conversions).

In those cases where weatherization and efficiency, are not able to respond to the level of need, the City proposes Home Repair and Rehabilitation. The cost of this program to help elderly utility customers is approximately \$1.2 million. It is difficult to quantify the number of jobs created, and/or the commercial economic benefits of such a program, but the program is expected to positively impact the local construction firms and residential appliance service industries. These firms will provide weatherization and home repair services, as well as residential heating and cooling systems at a time that new housing and re-construction projects have slowed due the economic downturn.

- **Brownfields:** Competitive grants for evaluation and cleanup of former industrial and commercial sites - turning them from problem properties to productive community use. Last year EPA was only able to fund 37 percent of Brownfields applications

- **Gaines Street Redevelopment:** *Estimated Cost: \$6.6 million; Estimated Jobs 75* The Gaines Street Corridor is a unique part of Tallahassee with a rich history dating back to the founding of the City. Located in the heart of the city, between two Universities, and immediately adjacent to the State Capitol and historic downtown, the Gaines Street corridor has been identified by elected leaders, community organizations and citizen groups as the City's prime target for redevelopment and revitalization. The redevelopment /revitalization of this designated brownfield area would enhance the economic, cultural and residential offerings of Tallahassee.

## Transportation and Development Service Area

- **Highways Infrastructure** -- For highway and bridge construction projects
  - **Capital Circle Southeast from Woodville Highway to Crawfordville Highway:** *Estimated Cost: \$15 million; Estimated jobs: 250* This project will widen approximately 1.53 miles of the existing two-lane Capital Circle SE from Woodville Highway to Crawfordville Road to a four-lane urban facility
  - **Capital Circle Northwest from US 90 to Orange Avenue:** *Estimated Cost: \$66 million; Estimated jobs 1848* This project will expand road capacity by widening Capital Circle NW from US 90 to Orange Avenue from two to six lanes

- **Public Transit** -- Capital Investment Grants for new commuter rail or other light rail systems to increase public use of mass transit and to speed projects already in construction; modernizing existing transit systems, including renovations to stations, security systems, computers, equipment, structures, signals and communications; purchase buses and equipment needed to increase public transportation and improve intermodal and transit facilities; purchase efficient alternative fuel vehicles to reduce fuel costs and carbon emissions
  - **StarMetro Regional Training Center: *Estimated Cost: \$1.66 million; Estimated Jobs: 100*** This facility would include maintenance training modules, a bus simulator and classroom. StarMetro has \$250,000 local funding allocated in a project for the purchase of the bus simulator, and \$250,000 has been allocated from the Florida Department of Transportation (FDOT). Additionally, \$21,000 has been allocated from FDOT for operating. FDOT is partnering with StarMetro to provide the maintenance training modules, and possibly some of the operating costs. This facility would greatly enhance availability of regional training for all of northern Florida, and would be an integral component of FDOT transit maintenance apprentice program.
  - **StarMetro Smart Bus Technology: *Estimated Cost: \$4 million; Estimated Jobs: 4*** This will fully integrate all of the hardware and software components of the Smart Bus and include the implementation of a Fixed Route support software and schedule bus routes in a flexible efficient manner utilizing proven computer technology. There will also be fixed technology components at Smart Bus Shelters and Transit Plazas. There will be 100% integration with the new registering farebox system which contains a GPS component. This project will take 12-36 months to fully implement.
  - **StarMetro Replacement Buses: *Estimated Cost: \$11.73 million; Estimated Jobs: 30.*** StarMetro has thirty buses past their useful life. Twenty-one of these buses are fourteen years old and nine are twelve years old. The twelve-year old buses have almost five hundred and fifty thousand miles per bus. The replacement criterion for buses under the FTA guidelines is twelve years old or five hundred thousand miles. The manufacturer no longer carries replacement parts for these buses, making it both expensive and increasingly difficult to find parts to keep these buses maintained.



income for home energy use and doesn't have the means to pay for home improvements. The proposed retrofit program would build on the City's Energy Smart Plus, Energy Assistance Program and Good Neighbor Program by providing a whole-house approach to achieving energy efficiency that is affordable to the homeowner. Under the program, local building contractors and vendors would be utilized to make the needed home improvements which might range from an HVAC upgrade and duct leak repair to installation of high-efficiency windows and appliances (overall weatherization). The program could also be utilized to provide assistance for the rental market, which has been difficult for traditional energy-efficiency rebate programs to penetrate due to landlord/tenant conflicts. The estimated cost of the program is \$3,000,000 to provide full energy retrofits for 1,000 homes. The project would also produce approximately 100 jobs in this community.

- **State and Local Enforcement** -- To support state and local law enforcement, including for Byrne Justice Assistance formula grants
  - **Gaines Street Surveillance Camera System** - The Tallahassee Police Department recommends implementing a surveillance camera system throughout the downtown business district and adjoining Gaines Street corridor. Law enforcement agencies around the country are adopting surveillance strategies as effective tools for crime reduction. Through the use of mesh technology deployment of the proposed system would be made cost effective and allow for flexibility in installation. The anticipated result is protection of multi-million dollar revitalization and development projects, creation of new jobs, and a significant contribution to restoring the downtown areas economic vitality.
  - **Byrne Justice Assistance** grant funding could include the following (not in priority order): Surveillance equipment used to support investigative operations; Continued support for the Juvenile Assessment and Receiving Center; Additional unmarked cars for "sting" operations; Refurbish the department's mobile command vehicle; Additional forensic equipment for crime scene processing; Travel and training for advanced investigative courses; Automated computer system for tracking and coordinating secondary employment.

- **Public Housing Capital Fund:** Funds distributed to public housing authorities through the existing formula as well as awarded through a competitive process for projects that improve energy efficiency
  - **Tallahassee Housing Authority Energy Efficiency Projects:** *Estimated Cost: 645,000; Estimated Jobs: 11* This project will upgrade appliances with energy star rated items for cost savings under master metering for public housing; Energy efficient windows, roof and appliances are needed in all units. New energy efficient windows are needed along with kitchen updates. Energy efficient exterior siding (hardiboard) replacement is needed along with updated electrical work for safety and growth management standards.