GAINESVILLE REGIONAL UTILITIES
STIMULUS PROJECTS FUNDING REQUEST

## SHORT TERM PROJECTS

| PROJECT | Description/Benefits | TOTAL PROJECT COST | SPENT TO DATE | FUNDING REQUEST | TIMELINE OF PROJECT | JOBS CREATED/ SUPPORTED |
|---|---|---|---|---|---|---|
| LOW INCOME ENERGY EFFICIENCY PROGRAM (LEEP) | "GRU Low Income Energy Efficiency Program (LEEP) assists low income (HUD guidelines) customers with home improvements that can lower their electric bill, improve comfort and reduce energy use. Improvements include everything from attic and floor insulation to water heater replacement, air conditioning, duct repair and more. Eligible participants work with GRU to determine the improvements that best suit their home and provide the most energy efficiency for the least cost. GRU spends an average of $2,800 per home to make energy efficiency improvements.<br><br>Potential Energy Savings of 537,936 kWh or 720,450 kWh when combined with existing GRU program funding. Potential Energy Cost Savings to customers of $86,607 of $115,992 when combined with existing GRU LEEP program.<br><br>Green House Gas (GHG) Emission: Annual reductions of 537,936 kWh, or 457 metric tonnes of CO2; and 720,450 kWh or 612 metric tons of CO2 when combined with existing GRU energy efficiency incentive programs." | $1,050,000 | $458,025 | $1,050,000 | Could initiate immediately and complete within 18 months. | 6 new jobs |
| ENERGY EFFICIENCY UPGRADE OF ADMINISTRATIVE OFFICES | Energy and Water Efficiency Upgrades including chiller replacement; building automation system; lighting retrofit; commissioning; sub-metering;cooling tower use of non potable water; retrofit of plumbing fixtures It is projected to save: about 38 percent or $1 5 million on energy costs over the life of the project; 635 MWh per year in energy; and 564 Metric tonnes a year of CO2. | $863,000 | $16,000 committed | $847,000 | Could complete within 18 months | Supports local contractors |
| EASTSIDE OPERATIONS CENTER | GRU is planning to relocate its existing warehouse, training facilities and operations center from their current downtown locations to a 118 acre site on the east side of town. The new facility will consist of seven major buildings (twelve buildings total) and will house offices, shops, a training facility, field training yard, and a hardened building which will contain a control center and data center. The new facility is being designed as five separate LEED projects; all of them will meet at minimum the LEED Silver requirements, and it is expected that some will also be LEED Gold certified. Once the relocation to the East Side Operations Center is complete, GRU will turn over approximately 16 acres in downtown Gainesville to a higher use. Due to its close proximity to downtown, the current use is not the best use for the property; the site is more appropriate for businesses and housing. The City's Development Agency has been working with the University of Florida to attract clean industry such as biotechnology companies to the site. In addition to freeing up this downtown site, GRU will also be relocating its existing 53rd Avenue Control center Approximately 2 ½ acres of this site will be turned over for retail development, and an additional 10 acres will be made available to be leased to businesses. | $50,000,000 | $1,500,000 | $48,500,000 | Engineering Design:<br>60% by February 2009<br>90% by Summer 2009<br><br>Construction 10/2009-04/2011<br><br>GRU has already selected a Construction Manager at Risk that is currently providing pre-construction and development consulting | 100 construction jobs |

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| SOLAR | GRU is instituting a solar electric Feed-in-Tariff (FIT) designed to make solar photovoltaic systems a good investment The program will begin March 1, 2009 The keystone of the program is a guaranteed price for the energy produced for at least 20 years. The degree and level of response is impossible to predict accurately To avoid excess rate pressure in case the market response exceeds expectations, a stop loss level of committed capacity is included in the program design, at 4 Megawatts of photovoltaic capacity in the first year GRU requests $19,500,000 to enable the stop loss to be set at 8 Megawatts This amount of money will exstablish a sinking fund to cover the FIT for the first 4 Megawatts of capacity for 20 years The solar FIT program will create jobs installing and potentially manufacturing solar systems | | | $19 500,000 | FIT available March 1, 2009 | 50 + installation & manufacturing |
| DISTRIBUTED CHILLED WATER | GRU is currently constructing a unique, $45,000,000 energy plant that uses waste heat from a combustion turbine to create chilled water in a very efficient manner for a major new hospital. Chilled water for commercial and multi-dwelling units is very appropriate for the climate of Florida. GRU has a downtown prower plant and wishes to serve another 4,000 tons of chilled water load using a similar technology. GRU is willing to invest $32,000,000 for the central chilled water/power plant, but needs $15,000,000 for the water loops required to connect the existing facilities nearby that have older and inefficient chilled water systems. Feasibility studies have already been funded and construction could start as early as October 2009. | $47,000,000 | | $15,000,000 | Construction could begin October 2009 | 8-12 construction<br>12-15 chiller system installation and maintenance<br>2-4 engineering |
| AUTOMATED METERING INFRASTRUCTURE | GRU bid put out an RFP for an AMI project in the spring of 2007, but lack of funding stopped the project. PURPA standards 16 and 17 require the City/GRU to investigate the feasibility of installing an automated metering infrastructure in its service territory The AMI system would provide customers with real time usage data and measurement and verification of savings from conservation programs It would also provide much needed load research data to target conservation programs where most needed and most effective and provide for modification of programs that may not be yielding the anticipated results It would assist with outage management and grid reliability and security. | $35 000,000 | | $35,000,000 | Implementation could begin as early as January 1, 2010 with funding | 15 installation jobs<br>2-4 data management jobs |
| DATA CENTER | Working with a local hospital, GRU is evaluating the construction of a 33,000 square foot Data Center in Gainesville Florida that would be a Tier 3 facility as defined by the Uptime Institute. The University of Florida has also expressed an interest in the project although their requirements have not been incorporated as yet into the preliminary design. The local hospital and GRU would locate their servers and other critical data storage infrastructure in the Data Center and space would also be available to other businesses to co-locate their equipment. Through systems redundancy the data center would provide high levels of reliability (uptime), electrical power, cooling capacity, fiber optic connectivity and security required for this type of equipment. The Data Center will also be constructed to withstand hurricane force winds. The facility will support further economic development in the area, promote the security of critical information and increase local employment. GRU is willing to provide land and the funding for the hardened structure but is seeking $17,000,000 for the specialized mechanical and electrical equipment necessary for a Tier 3 rating. Redundant mechanical and electrical equipment required includes transformers, chillers, air handlers, UPS batteries, fire suppression systems, back-up generators, and related service lines and piping. | $35,000,000 | $95,000 | $17,000,000 | June 2009 -December 2011 | 50 Construction jobs<br>5 full time center staffing jobs |

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| PAYNES PRAIRIE SHEETFLOW RESTORATION PROJECT PHASE I | Main Street Water Reclamation Facility Upgrades for Phosphorus Removal. This project is a key component of a major environmental restoration project, the Paynes Prairie Sheetflow Restoration project, which will restore 1 300 ac of wetlands and improve water quality in Paynes Prairie Preserve State Park assist in meeting a Total Maximum Daily Load (TMDL) improve water quality and provide beneficial reuse of 7 5 mgd of reclaimed water | $1 650 000 | $150,000 | $1,500,000 | 11/09 - 6/10 | 20 |
| PAYNES PRAIRIE SHEETFLOW RESTORATION PROJECT PHASE II | Sweetwater Branch Sediment and Trash Removal and Flow Diversion Structure. Construction of stream grade control structures, facilities to remove sediment and trash from the stream and hydraulic diversion structures. Project is a key component of a major environmental restoration project, the Paynes Prairie Sheetflow Restoration project, which will restore 1,300 ac of wetlands and improve water quality in Paynes Prairie Preserve State Park, assist in meeting a Total Maximum Daily Load (TMDL), improve water quality and provide beneficial reuse of 7.5 mgd of reclaimed water | $1,025,000 | $25,000 | $1,000,000 | 11/09 - 6/10 | 20 |
| MAIN STREET (SR329) RECONSTRUCTION/UTILITY RELOCATION | The Florida Department of Transportation (FDOT) is reconstructing an existing roadway and creating a center turn lane, bike lanes, on-street parking, and mast arms at the signalized intersections to make it more bike and pedestrian friendly In conjunction with this roadway project, GRU's existing water and wastewater utilities will be relocated and upgraded to provide additional capacity to accomodate future redevelopment in the downtown area This project will be completed as part of a joint project agreement with FDOT The project will create numerous construction jobs as well as perpetual residual benefits from downtown redevelopment activities made possible by the renewal and replacement of aging water and wastewater infrastructure | $2,235,000 | $170,000 | $2,065,000 | 4/09 - 3/10 | 20 |
| REHABILITATION OF AGING/DETERIORATING WASTEWATER COLLECTION LINES | In an effort to reduce Sanitary Sewer Overflows (SSOs), GRU routinely evaluates the integrity of its gravity sewers and programs in-situ lining and repair of segments determined to be structurally compromised, or at risk of failure. In addition to the environmental benefits of reducing overflows, the rehabilition activities restores both ther structural integrity and capacity, providing wastewater capacity to development and redevelopment activities. This project is ongoing and approximately 25% complete at this time, and could be compressed and completed in 24 months. | $7,742,656 | $1,742,656 | $6,000,000 | 3/09 - 2/15 | 20 |
| CONSTRUCTION OF A 36" WATER TRANSMISSION MAIN | This project will improve water pressure and provide additional capacity for development and redevelopment activities and stimulate local economic activity This project is on-going approximately 50% complete, and can be accelerated to be begin the next phase of construction in 9 months, to be completed in 24 months | $10 000 000 | $4,900,000 | $5,100,000 | 11/09 - 10/11 | 50 |
| RECLAIMED WATER REPUMPING STATION | Reclaimed water storage tank and pumping facility, which is needed in order to continue to expand reclaimed water service. Expansion of recalimed water is essential in order to meet future water supply needs and to provide beneficial reuse of wastewater effluent. | $6,500,000 | $150,000 | $6,350,000 | 6/09-6/11 | 30 |
| RECLAIMED WATER MAIN EXTENSION TO WEST END GOLF COURSE & SURROUNDING AREA | Extension of reclaimed water lines to serve existing golf course and new and future development To produce 1 4 MGD for beneficial reuse | $2,400,000 | | $2,400,000 | 6/09 - 3/11 | 20 |
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| PAYNES PRAIRIE SHEETFLOW RESTORATION PROJECT PHASE III | Sweetwater Canal Filling and Wetland Restoration. Removal of a 10,000 ft historic drainage ditch in order to restore natural sheetlow of water into Paynes Prairie Preserve. Project is part of the Paynes Prairie Sheetflow Restoration project, which will restore 1,300 ac of wetlands and improve water quality in Paynes Prairie Preserve State Park, assist in meeting a Total Maximum Daily Load (TMDL), improve water quality and provide beneficial reuse of 7 5 mgd of reclaimed water | $1,010,000 | $10,000 | $1,010,000 | 6/09 - 6/10 | 20 |
| URBAN CREEK RESTORATION | Extension of sanitary sewer & elimination of septic tanks to improve water quality and help to meet TMDL for fecal coliform contamination of urban creeks. | $250,000 | | $250,000 | 6/09 - 6/10 | 10 |
| DEPOT PARK ROAD AND INFRASTRUCTURE | GRU is responsible for remediating the site of a former manufactured gas plant located on the outskirts of downtown Gainesville. After the remediation is complete, the City intends to develop the site into a stormwater park (Depot Park). In addition to providing a variety of park amenities in a low-income area of the City, Depot Park is also being designed to accommodate stormwater ponds which will enable additional downtown in-fill development by providing off-site stormwater treatment. The Depot Park site has also been selected for the location of the new Cade Museum of Innovation and Technology. The museum's focus will be to introduce children to science and creative technology. | $13,300,000 | | $125,000 | one year to complete | 10-15 temporary construction jobs |
| URBAN NATURAL GAS INFRASTRUCTURE IMPROVEMENTS | This project will provide the reliable delivery of natural gas by building and upgrading the aging infrastructure while also promoting expansion of the system into underserved areas Many of the targeted areas include lower income customers who would benefit by the cost and energy savings available from natural gas This project would provide a safe reliable energy source while reducing carbon emissions. | $4,600,000 | $1,800 000 | $2 800 000 | Could be complete in 24 months | 8-12 temporary construction jobs |
| NEXTWAVE WIRELESS NETWORK | GRU proposes to construct and operate a 2.3GHz TD-CDMA mobile data network system for use by public safety and mobile utility workforce personnel in the GPD, GFR and GRU fleets; additional benefits within the utility for Automated Meter Reading (AMR), Demand Side Management (DSM) and CCTV Security System capabilities | $3,700,000 | $0 | $3,700,000 | 12 MONTHS | 2 NEW JOBS/SUPPORTS 900 JOBS |
| SCHOOL DISTRICT FIBER OPTIC INTERCONNECTIVITY | GRU proposes to install ~25 miles of fiber optic telecommunications cable to complete construction of our existing Metro Area Network which provides high capacity telecommunication interconnectivity to forty-seven schools and centers in Alachua County GRU is currently connected via fiber-optic cable to thirty-three schools/center Funding would provide ability to build-out fourteen schools | $2 000 000 | $0 | $2,000,000 | 6 MONTHS | SUPPORTS ADDITIONAL 200 EDUCATORS |

## LONG TERM PROJECTS

| PROJECT | Description/Benefits | TOTAL PROJECT COST | SPENT TO DATE | FUNDING REQUEST | TIMELINE OF PROJECT | JOBS CREATED/ SUPPORTED |
|---|---|---|---|---|---|---|
| BIOMASS POWER PLANT | GRU is working with a private sector developer to construct a 100 MW biomass fueled power plant. The facility will cost roughly $375,000,000 and will be owned and operated by the project developer on land leased from GRU under a contract whereby GRU will purchase the entire unit's output. The primary source of fuel is forest waste products, and the current forest industry does not have sufficient infrastructure to process the timber harvesting remnants and deliver them to the plant. GRU requests $4,000,000 to purchase logging and transportation equipment to lease at a competitive rate to operators that successfully compete for and win contracts to process and deliver fuel. The biomass plant provides for carbon neutral generation and may provide carbon reduction where it replaces fossil fuel generation. Materials that would decompose naturally would emit methane but if they are processed in the biomass plant, it results in a net negative carbon emission. An alternative disposal is an uncontrolled burn during disposal, but process in the biomass plant will provide for reduced particulate omissions. | | | $4,000,000 | Operations to begin mid 2013 | 490 permanent jobs created |
| PAYNES PRAIRIE SHEETFLOW RESTORATION PROJECT PHASE IV | Construction of 150 ac Enhancement Wetland The Enhancement wetland will treat the flow from Sweetwater Branch to achieve very low nutrient levels, so that the resulting high quality water can be used to restore wetlands on Paynes Prairie Project is part of the Paynes Prairie Sheetflow Restoration Project which will restore 1,300 acres of wetlands and improve the water quality in in Paynes Prairie Preserve State Park, help to achieve a Total Maximum Daily Load (TMDL), protect the Floridan Aquifer, provide wildlife habitat, provide beneficial reuse of wastewater effluent and provide public access for nature study | $13,000,000 | $2,000,000 | $11,000,000 | 01/11 - 01/13 | 100 |
| PAYNES PRAIRIE SHEETFLOW RESTORATION PROJECT PHASE V | Sheetflow Distrubtion Channel Construction of 1 mile long distribution channel to restore the natural sheetflow of Sweetwater Branch onto Paynes Prairie. Project is part of the Paynes Prairie Sheetflow Restoration Project which will restore 1,300 acres of wetlands and improve the water quality in in Paynes Prairie Preserve State Park, help to achieve a Total Maximum Daily Load (TMDL), protect the Floridan Aquifer, provide wildlife habitat, provide beneficial reuse of wastewater effluent and provide public access for nature study | $3,200,000 | | $3,200,000 | 01/11 - 01/13 | 100 |
| SUBURBAN INFRASTRUCTURE EXTENSIONS | These projects would provide for extension/expansion of natural gas to suburban growth areas that previously were not cost effective to serve due to gaps in serviceable customers This infrastructure "bridging" would provide natural gas to areas that would include schools, residential developments, businesses & industry Again, the goal would be to make an affordable & alternate source of energy available that would reduce carbon emissions through the offset of the use of oil and electricity | $3,200,000 | $0 | $3 200 000 | Could be complete in 36 months | 2 |