

## Attachment D

### Energy Efficiency & Conservation Strategy for Units of Local Governments & Indian Tribes

As detailed in Part 1 of this announcement, all applicants must submit an Energy Efficiency and Conservation Strategy (EECS). Units of local government and Indian tribes have the option of submitting the EECS no later than 120 days after the effective date of the award or at the time of application. Units of local government and Indian tribes who chose to submit the EECS at the time of application shall use the format contained in Attachment D. This form should be saved in a file named "UIC-Strategy.pdf" and click on "Add Optional Other Attachment" to attach.

Grantee: City of Jacksonville / Duval County Date: 11/24/2009 (mm/dd/yyyy)  
DUNS #: 4076998 Program Contact Email: cwilks@coj.net

1. Describe your government's proposed Energy Efficiency and Conservation Strategy. Provide a concise summary of your measureable goals and objectives, which should be aligned with the defined purposes and eligible activities of the EECBG Program. These goals and objectives should be comprehensive and maximize benefits community-wide. Provide a schedule or timetable for major milestones. If your government has an existing energy, climate, or other related strategy please describe how these strategies relate to each other.

The City of Jacksonville's EECS focuses on the following EECBG project activities, as described by the EECBG Program: 1, 2, 4, 5, 6, 7, 9, and 10. By the end of the projected 2 year implementation phase, the City's community-wide EECS program goals and objectives are: Goal 1: Provide new energy-related job opportunities. Objective 1: Create or retain over 100 jobs. Goal 2: Reduce the Northeast Florida regional environmental footprint. Objective 2: Reduce GHG emissions by over 37,000 mtCO<sub>2</sub>e annually. Objective 3: Divert over 700 mt of public facility generated recyclables from the area landfills annually. Objective 4: Reduce energy consumption by over 147,000 MBtu annually. Goal 3: To deploy renewable energy technologies. Objective 5: Generate 13 MWh of renewable electricity annually. Objective 6: Reduce energy consumption by 902 MBtu through solar water heating and geothermal heat pump projects.

To achieve these goals and objectives, the EECS will focus on 10 program areas: 1. Energy Efficiency and Conservation Strategy Administration 2. Energy Efficiency and Conservation Strategy Development. 3. Metropolitan Government Energy Audit Program. 4. Metropolitan Government Retrofit Program. 5. Metropolitan Government Waste Reduction Program. 6. Metropolitan Government Clean Transportation Program. 7. Community Energy Efficiency Incentives Program. 8. Community Clean Energy Job Training Program. 9. Clean Energy Distribution Demonstration Program. 10. Community Sustainability Awareness Program.

Milestones: 1. Prepare all Requests for Information, Requests for Proposals, Competitive grant solicitations, and contracts for consultants, program contractors and sub-grantees (Estimated completion: June 2010). 2. Establish a monitoring and validation strategy plan for each EECBG funded program (Estimated completion: 12/31/2010). 3. Implement all approved EECBG programs (Estimated completion: 12/31/2010). 4. Monitor, verify, inspect, manage, and report on all programmatic aspects throughout the life of the award (Estimated completion: 07/27/2009 – 07/26/2012). 5. Complete all EECBG program activities (Estimated completion: 07/26/2010 – 07/26/2012).

The EECBG project activities will support the City's existing efforts to reduce electricity consumption and emissions. In 2007, Mayor John Peyton signed the U.S. Mayor's Climate Protection Agreement. This commitment was followed by Executive Order 2008-3 establishing a Sustainability Policy for municipal operations. The Order also established an Office of Sustainability Initiatives, a Sustainability Officer, and a Sustainability Team. In 2009, the City adopted two ordinances relevant to the goals of EECS. City Ordinance 2009-0211 created a Sustainable Building Program. City Ordinance 2009-282 appropriated funds in support of the city's Sustainability Policy and Sustainable Building Program.

The EECS will serve as the foundation of a multi-sector strategy to increase the sustainability of the City of Jacksonville and Duval County. The City will begin developing this comprehensive sustainability strategy immediately following its application for its full EECBG award. The strategy will not only ensure that the programs identified in the EECS are successfully implemented, but will provide a roadmap for sustaining and exceeding the milestones set forth in the EECS in the years to come.

2. Describe your government's proposed implementation plan for the use of EECBG Program funds to assist you in achieving the goals and objectives outlined in the strategy describe in question #1. Your description should include a summary of the activities submitted on your activity worksheets, and how each activity supports one or more of your strategy's goals/objectives.

Jacksonville's EECS will focus on eight program areas designed to achieve significant energy and greenhouse gas savings in the public and private sectors, while generating new employment opportunities. These programs will involve substantial coordination between the City of Jacksonville and the other major units of local government located in the Jacksonville metropolitan region.

1. Energy Efficiency and Conservation Strategy Administration: The City of Jacksonville will utilize 10% of all grant program funds to administer the grant, and comply with reporting requirements. The administrative cost activity will utilize \$789,150.
2. Energy Efficiency and Conservation Strategy Development: The City of Jacksonville will award \$250,000 to a consulting firm to assist with the development of the EECS strategy and provide ongoing EECBG technical consulting services for various program activities. The program will utilize \$250,000 in EECBG funds.
3. Metropolitan Government Energy Audit Program: The Jacksonville Metropolitan Energy Audit program will audit and retro-commission selected government facilities throughout the Jacksonville metropolitan area and implement an internet-based utility monitoring system for City of Jacksonville government facilities. The program will utilize \$1,020,000 in EECBG funds and \$36,030 in leveraged COJ funds. Estimated annual energy and greenhouse gas savings amount to 31,279 MBtu and 8,022 mtCO<sub>2e</sub>, respectively. An estimated 11 jobs will be created or retained.
4. Metropolitan Government Retrofit Program: The Jacksonville Municipal Government Retrofit program will conduct audit-based energy efficiency retrofits, install energy management and control systems installation at 30 City of Jacksonville parks and recreation facilities, and perform energy efficiency retrofits in selected Duval County public schools. The program will utilize \$3,053,850 in EECBG funds and \$855,885 in leveraged funds. Estimated annual energy and greenhouse gas savings amount to 42,211 MBtu and 10,825 mtCO<sub>2e</sub>, respectively. An estimated 42 jobs will be created or retained.
5. Metropolitan Government Waste Reduction Program: The Jacksonville Metropolitan Waste Reduction Program Activity will feature two components: (I) the Duval County Public Schools (DCPS) Recycling Initiative, and (II) the City of Jacksonville Effective Waste Management Pilot Program (EWMPP). The estimated annual greenhouse gas savings for these programs totals 2,381 tCO<sub>2e</sub>. An estimated 3 jobs will be created or retained. The program will utilize \$117,500 in EECBG funds.
6. Metropolitan Government Clean Transportation Program: This program will fund the incremental cost of low emission electric, hybrid and liquid propane assisted vehicles in metropolitan government fleets, replace 300 electronic parking meters with solar meters, and convert 40 Jacksonville Transportation Authority buses to a mini hybrid engine cooling system. The program will utilize \$410,000 in EECBG funds and \$1,752,644 in leveraged local government funds, while saving an estimated 3,755 MBtu and 284 mtCO<sub>2e</sub> annually and generating or preserving 24 jobs.
7. Community Energy Efficiency Incentives Program: The Jacksonville Community Energy Efficiency Incentives Activity will disperse competitive subawards to area non-profits based on identified need, offer rebates for high efficiency hot water heating technologies and allocate funds to contractors under the management of JEA, the city's municipal electric utility, in order to strategically expand and supplement the utility's residential DSM programs. The program will utilize \$1,250,000 in EECBG funds and \$387,500 in leveraged community funds. Estimated annual energy and greenhouse gas savings amount to 42,850 MBtu and 10,989 mtCO<sub>2e</sub>, respectively. An estimated 18 jobs will be created or retained.
8. Community Clean Energy Job Training Program: The Community Clean Energy Job Training program will train 80 participants over two years in energy efficiency job trades. Three jobs will be directly created or retained through this program. The program will utilize \$190,000 in EECBG funds and \$85,000 in leveraged FSCJ funds.
9. Jacksonville Clean Energy Distribution Demonstration Program: The Clean Energy Distribution Demonstration Program will install a 10 kW photovoltaic system and a groundwater-based geothermal heating and cooling system at Tree Hill Nature Center. In addition, solar hot water heating systems will be installed at 30 neighborhood fire stations throughout the Duval County area. The program will utilize \$338,000 in EECBG funds and \$215,600 in leveraged community funds. Estimated annual renewable energy production amounts to 13 MWh, while energy and greenhouse gas savings of 946 MBtu and 243 mtCO<sub>2e</sub>, respectively, will be realized. An estimated 6 jobs will be created or retained.
10. Jacksonville Community Sustainability Awareness Program: The Jacksonville Community Sustainability Education and Outreach program will promote a community vision for sustainability through contests, promotions, campaigns, and other communications tools that heighten awareness of the contribution of energy and transportation efficiency, renewable energy production and distribution, waste reduction, and other techniques to the health, welfare and environmental integrity of the City's future. The program will result in 17,933 MBtu and 4,599 mtCO<sub>2e</sub> in avoided energy use and greenhouse gas emissions, respectively. The program will utilize \$473,000 in EECBG funds.

3. Describe how your government is taking into account the proposed implementation plans and activities for use of funds by adjacent units of local government that are grant recipients under the Program (response not mandatory for Indian Tribes).

No adjacent units of local governments are direct recipients under the EECBG formula program. The average distance of the nearest unit of local government receiving a formula allocation under the EECBG program is approximately 115 miles. Consequently, there are limited opportunities for collaboration with other EECBG formula grant recipients.

However, Jacksonville is coordinating with a number of adjacent units of local government that are eligible to compete for the State of Florida EECBG funds. The state of Florida has made available \$18 million in EECBG funding to non-entitlement cities and counties on a competitive basis. In Duval County, the cities of Atlantic Beach, Neptune Beach, Jacksonville Beach and the Town of Baldwin are eligible for competitive EECBG funds through the state program. The adjacent counties of Nassau, Baker, Clay, and St. Johns are also eligible for the funds.

In developing its EECS, the city has worked closely with JEA, the local public electric, water and sewer utility, which serves the city as well as the Town of Baldwin and the cities of Atlantic Beach, and Neptune Beach. JEA representatives served in an advisory capacity in the development of the City's EECS. In addition, elements of Jacksonville's EECS coordinate closely with JEA's existing and future energy efficiency programs and strategies. Consequently, implementation of Jacksonville's EECS may have an impact on adjacent units of government via the efforts of JEA.

In addition, Jacksonville has reached out to each of the aforementioned units of local government to solicit feedback and ideas for the city's strategy. It has also shared information about the EECBG program both at the national and state level. Upon approval of the city's EECS, Jacksonville plans to familiarize adjacent units of local government with its strategy. It will encourage local governments to coordinate with Jacksonville's strategy in their efforts to secure future competitive EECBG dollars.

4. Describe how your government will coordinate and share information with the state in which you are located regarding activities carried out with grant funds to maximize energy efficiency and conservation benefits (response not mandatory for Indian Tribes).

Parallel to the City of Jacksonville's efforts to develop an EECS under the EECBG program, the State of Florida's Energy and Climate Commission has been working to develop Florida's Weatherization Assistance Program, ENERGY STAR appliance rebate program, State Energy Plan, and EECBG program.

Through activity 5, Jacksonville Community Energy Efficiency Incentives, the city will be collaborating with JEA to supplement the ongoing efforts of the Northeast Florida Community Action Agency (NFCAA), which is administers northeast Florida's Weatherization Assistance Program (WAP). Through this program, the city will provide programs complimentary to the state's weatherization efforts by serving a demographic that would not otherwise be served through the WAP program, yet demonstrates a need for energy efficiency services.

In addition, Jacksonville will work to communicate the efforts of the state Energy & Climate Commission as the city implements its EECS. For instance, it will encourage citizens to participate in the state's ENERGY STAR appliance rebate program during April 16 – 25, 2010. Jacksonville will also participate, and encourage its citizens to participate, in elements of Florida's State Energy Program that complement the city's EECS. Examples include the state's Solar for Schools & Storm Shelters program, which will install 10 kilowatt photovoltaic systems on public schools. The city will encourage an installation on at least one Duval County public school. Jacksonville will also encourage residents to participate in the state's Solar Energy Loan Program, Solar Rebate Program, and Residential Retrofit Grants and Loans Program.

The city will also encourage neighboring local governments to participate in the state's EECBG program and coordinate their awards with Jacksonville's EECBG. It will also take advantage, where feasible, of other state programs under the EECBG program, including energy code training and education.

Throughout, the City of Jacksonville will share information with the state Energy and Climate Commission, and other relevant state agencies, including making state officials aware of the goals and activities of the city's EECS through the city's website, publications and meetings.

5. Describe how this plan has been designed to ensure that it sustains benefits beyond the EECBG funding period.

Each of the 8 program areas that comprise Jacksonville's EECS has been designed to achieve significant benefits expected to extend well beyond the EECBG funding period. The Metropolitan Government Energy Audit and Retrofit Programs as well as the Community Energy Efficiency Incentives program will identify and implement several long-lived energy conservation measures, nearly all of which will yield energy savings over a lifetime well in excess of the 3 year EECBG funding period. Those measures implemented at City of Jacksonville's municipal facilities will be tracked via a utility based monitoring system that will aid identification of future areas where City energy consumption can be optimized for savings. The Metropolitan Waste Reduction Program will educate a new generation of Duval County public school children on the value of recycling, boosting recycle rates in future years. In addition, the pilot Effective Waste Management Program for COJ facilities is designed to be scaled up in future years to cover all City government buildings. The Metropolitan Vehicle Emission Reduction Program also targets measures whose lifetimes well exceed the EECBG funding period. The technologies showcased by the City's Energy Distribution Demonstration Program will operate for years after the close of the EECBG funding period, distributing clean energy to the community. In addition, as educational projects, these installations will demonstrate the viability of solar and geothermal energy solutions to home and business owners throughout the Jacksonville community, contributing towards long-term market transformation for these clean energy products. The Community Clean Energy Job Training Program is designed to be supplemented by future funds that will establish the program as a permanent source of clean energy job training for the community. Ultimately, these programs will involve substantial coordination between the City of Jacksonville and the other major units of local government located in the Jacksonville metropolitan region, laying the foundation for a comprehensive approach to sustainability in the region. In fact, the City of Jacksonville views the EECS as the core of a multi-sector strategy to increase the sustainability of Duval County. The City will begin developing this comprehensive sustainability strategy immediately following its application for its full EECBG award. The strategy will not only ensure that the programs identified in the EECS are successfully implemented, but will provide a roadmap for sustaining and exceeding the goals set forth in the EECS in the years to come.

6. The President has made it clear that every taxpayer dollar spent on our economic recovery must be subject to unprecedented levels of transparency and accountability. Describe the auditing or monitoring procedures currently in place or that will be in place (by what date), to ensure funds are used for authorized purposes and every step is taken to prevent instances of fraud, waste, error, and abuse.

The City of Jacksonville will be the fiscal agent for this grant. The City of Jacksonville's Grants Management Office in conjunction with the Finance Department will create a separate accounting sub fund that will be used to track the federal grant funds separately from all other general and special revenue accounts. The funds will be tracked in our financial management system, FAMIS, by grant (CFDA#) and project detail for increased transparency.

The program budgets will be appropriated via city ordinance by the City Council, and grant funding will only be distributed to vendors, contractors, and other interlocal agencies with approved contracts/interlocal agreements in place that have been reviewed by the City's Procurement Division, Finance Department, Office of General Counsel, and the Mayor's Office.

Programmatic oversight will be managed by project staff located in the Environmental and Compliance (E&C) Department as well as JEA. Any agency approved to receive funding will send information to those staff members. The E&C staff members will have supplemental city support to ensure the successful completion of the program. All documentation, including bills, invoices, and program status reports, relative to expenditures detailed in the budget, shall be required on a monthly basis from all entities before submitting payment via a check or EFT methodologies. The Environmental and Compliance Department EECBG staff will develop a site monitoring plan during 2010.

The EECBG project staff members located in the Environmental and Compliance Department will gather the required grant documentation to submit via the PACE system and to the accounting division for payments/drawdowns. The staff members will be required to supply related [www.FederalReporting.gov](http://www.FederalReporting.gov) information to the Grants Management Office for quarterly submission. When applicable the Grants Management Office in conjunction with the City's Inspector General Office may conduct internal audits throughout the life of the grant program to ensure that all EECBG requirements have been met and to provide additional oversight.