

RESOLUTION 2010- 127

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO SUBMIT AN APPLICATION SEEKING FUNDING ASSISTANCE FROM THE FLORIDA ENERGY AND CLIMATE COMMISSION.

WHEREAS, the Florida Energy and Climate Commission allows local governments to apply for a grant to provide funding for renewable energy programs, equipment installations, and market transformation activities; and

WHEREAS, the deadline for the County submitting the application is June 18, 2010; and

WHEREAS, the County staff has reviewed the Grant application and after a review has determined that nothing contained in the Grant application, none of the requirements, restrictions or obligations associated with award of the Grant, or the Grant itself, negatively impact the interests of the County; and

WHEREAS, after a review of the Grant application the County has determined that an award from the Florida Energy and Climate Commission for energy efficiency retrofit improvements are in the overall interests of the County.

NOW, THEREFORE BE IT RESOLVED, by the Board of County Commissioners of St. Johns County, Florida that:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution, and such Recitals are adopted as Findings of Fact.

Section 2. The Board of County Commissioners hereby authorizes the County Administrator, or designee, to submit a grant application (attached hereto, and incorporated herein), on behalf of St. Johns County to the Florida Energy and Climate Commission.

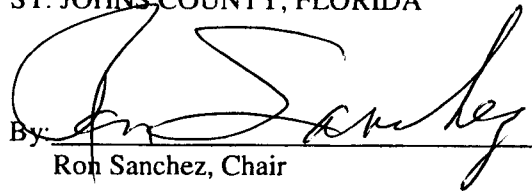
Section 3. The Board of County Commissioners hereby authorizes the County Administrator, or designee, to execute any other paperwork necessary or associated with the application for the Florida Energy and Climate Commission.

Section 4. To the extent that there are typographical and/or administrative errors and/or omissions that do not change the tone, tenor, or context of this Resolution, then this Resolution may be revised with subsequent approval of the Board of County Commissioners.

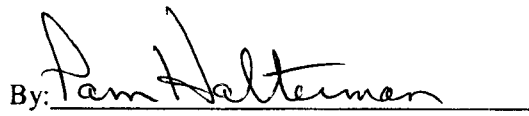
Section 5. That this Resolution shall be effective upon adoption.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this 15th day of June, 2010.

BOARD OF COUNTY COMMISSIONERS OF
ST. JOHNS COUNTY, FLORIDA

By: 
Ron Sanchez, Chair

ATTEST: Cheryl Strickland, Clerk

By: 
Deputy Clerk

RENDITION DATE 6/15/10



ATTACHMENT A

A. PROJECT INFORMATION SHEET

APPLICANT INFORMATION					
Project Title:					
Project Location:					
Enter Applicants Eligibility Status: Governmental Agency, School District, Public Univ. etc. (refer to Part III, Sect. A) Mandatory		Grant Application Category:			
LEAD APPLICANT					
Contact Name:					
Organization:					
Address Line 1:					
Address Line 2:					
City:		State:		Zip:	
Email:					
Phone:		Fax:			
PARTNERING APPLICANT(S)					
Contact:					
Organization:					
Address Line 1:					
Address Line 2:					
City:		State:		Zip:	
Email:					
Phone:		Fax:			
<i>*Include additional partners as an addendum.</i>					
REQUIRED REGISTRATION INFORMATION					
Legal Name of Lead Applicant:					
FEID No.:					
DUNS No.:					
CCR Expiration Date:					
MFMP Status:					
FUNDING REQUEST AND COST SHARE					
1. Total Amount of Grant Funds Requested:					
2. Total Matching Funds (Provided by applicant and project partners):					
3. Total Project Cost (Add amounts in 1 and 2):					
4. Match Percentage (Divide amount in 2 by amount in 3):					
JOBS CREATED/RETAINED					
1. Total Short Term Jobs					
2. Total Long Term Jobs					
3. Total Jobs (Add the numbers from 1 and 2)					

4. Total Florida Clean Energy Grant Funds Requested				
5. Jobs Divisor (Divided the amount in 4 by \$92,000)				
6. Job Score (Divide the number in 3 by the number in 5) <i>Please round to nearest whole number</i>				
ENERGY SAVINGS AND ENERGY PRODUCTION				
Activity	Million Source Btu Saved	MWh Saved	Thousand Cubic Feet Natural Gas Saved	Gallons Gasoline Saved
Total Source Btu Saved (millions)				
Total Cost Savings				
<i>*Include additional activities as an addendum.</i>				
CERTIFYING OFFICIAL				
Certifying Official's Signature <i>*If signed by a person designated by the local governing body, a copy of the resolution must be included</i>				
Certifying Official's Name (printed):				
Title:				
Organization:				

PROJECT NARRATIVE

B. PROJECT BACKGROUND Provide a summary of the project and the background justification supporting the need for the FECC to fund the project. Include experience and qualifications of the project team for their assigned role with the project. This section is limited to one page. If multiple jurisdictions choose to partner in their application, the page limit is increased to two pages. Pages submitted beyond the page limit will not be reviewed.

PROJECT NARRATIVE (cont.)

C. DESIRED OBJECTIVES: Provide a list of objectives, in bullet format, expected to be achieved as a result of completing this project. This section is limited to one page. If multiple jurisdictions choose to partner in their application, the page limit is increased to two pages. Pages submitted beyond the page limit will not be reviewed.

PROJECT NARRATIVE (cont.)

D. PROJECT DESCRIPTION Indicate the eligible activity(ies) selected and provide a detailed description of the work to be performed for the project. Include maps, graphs, charts, etc. if applicable to a deliverable to support project activities. Project descriptions should consist of a list of major tasks for accomplishing the project with specific sub-activities detailed within each task heading. Identify which objective(s) from Section C, Desired Objectives, are related to each task. This section is limited to three pages. If multiple jurisdictions choose to partner in their application, the page limit is increased to four pages. Pages submitted beyond the page limit will not be reviewed.

PROJECT NARRATIVE (cont.)

E. PROJECT /DELIVERABLES/OUTPUTS:

Using the table format below, identify the month of the project each task will start and be completed (for example, Task #1 might start in month 1 and be completed by month 6 – don't insert specific dates). Identify outputs/deliverables to result from this project and in which months of the project (for example month 12) the outputs/deliverables will be accomplished. The Description of each Activity must reference the related Task # from Section D, Project Description.

No.	Task/Activity Description	Deliverables/ Outputs	Start Month	Deadline/End Month
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

PROJECT BUDGET (cont.)

F. TOTAL BUDGET BY TASK:

Summarize the Total Project Cost budget by Project Task using the format in the following table. Project Tasks should correspond to the "Project Description" in Section D. The cost standard used to estimate costs must be provided as supporting documentation. The FECC independent evaluators will review standards for cost reasonableness and may request justification of the cost reasonableness of any budgetary item. If the applicant cannot justify a cost, the FECC staff will reduce the line item budget at the time of Grant Agreement negotiation. All dollar amounts should be rounded to the nearest whole dollar value

	Project Task	Grant Funds	Cost Share: Matching Funds and Other In-Kind Contributions	
			Matching Funds	Source
1				
2				
3				
4				
5				
6				
7				
	Totals:			
Total Project Cost:			= Grant Funds + Cost Share	

PROJECT BUDGET

G. BUDGET SUMMARY: Summarize the Total Project Cost by budget (including both requested grant funds and Match/leveraged funds) by Budget Category and round each Budget Category subtotal to the nearest whole dollar value. Use the format in the following table

Budget Category	Grant Funds	Cost Share: Matching Funds and Other In-Kind Contributions	
		Funding	Source of Funds
1. Salaries			
2. Fringe Benefits			
3. Travel (if authorized)			
4. Supplies/Other Expenses			
5. Equipment			
6. Contractual Services			
7. Indirect (if authorized)			
Total Project Budget			
Total Project Cost		= Grants Funds + Cost Share	
Cost Share Percentage		= Cost Share / Total Project Cost	

PROJECT BUDGET (cont.)

H. BUDGET DETAIL Provide a detailed, line-item budget using the worksheet format shown below. Provide accurate calculations to justify the cost of each budget line-item. Round only the subtotals for each Budget Category amount to the nearest whole dollar value; these sub-totals must correspond to figures reflected in Section G, Budget Summary. Use additional lines if necessary. For each budget line-item, identify in the appropriate column if the cost is: 1) Grant or Match, 2) a Direct cost used to calculate Indirect Costs (if approved) and 3) whether the cost is Administrative in nature. Up to 10% of grant funds may be used for administrative costs, excluding the cost of meeting the reporting requirements of the program. Administrative costs are allowable, reasonable, and allocable Direct and Indirect costs related to overall management of the awarded grant (including travel).

A description of what is required for each Budget Category is as follows:

1. Salaries - Identify the persons to be compensated for work on this project by name (if known), position, and title. Show the hourly cost and total hours to be charged for each person or position. Divide annual salaries by 2080 hours and nine month academic salaries by 1560 hours, to find the hourly rate.
2. Fringe Benefits - Multiply the rate by the total salaries to which fringe benefits apply. If the rate is variable, explain and show calculations.
3. Travel - List trips by their purpose and/or destination. Indicate the number of days for each trip. The Commission will only reimburse for travel at the appropriate State of Florida rate (Section 112.061, Florida Statutes). Be prepared to provide the Commission with details on costs utilized to calculate the "Amount Budgeted" for each trip.
4. Supplies & Other Expenses - List expendable supplies by category description, unit costs and quantity. List other expenses not included in any of the above categories. Examples would be printing, copying, postage, communications, etc. Non-expendable equipment valued at less than \$1,000 may be listed also. Include only expenses directly related to the project, not expenses of a general nature. For Match only, list costs related to donated real property such as land (not to exceed fair market value of property)
5. Equipment - List non-expendable personal property/equipment valued at \$1,000 or more by description, unit cost, and quantity. Computers and data-processing equipment should be described in detail.
6. Contractual Services - Subcontractors should provide the same information required by this budget table, with the following exceptions: (a) when professional services are provided at a pre-existing approved rate or fee shown on the budget; or (b) the subcontract is to be obtained competitively. For either (a) or (b), show an estimated maximum amount.
7. Indirect Costs/Rate - The FECC prefers that Indirect Costs, if required, are utilized as Match. If Indirect Costs are requested to be reimbursed with grant funds, they must be authorized and based on a specified rate in consultation with the FECC. The Indirect Cost Rate and the Direct costs upon which the amount of Indirect Cost is calculated must be reasonable, measurable, documented and the Indirect Cost Rate must be consistently applied. Indirect Costs are included in project Administrative Costs as described above.
8. Total Budget Category - Show the total of all line-items within a Budget Category.
9. Total Budget - Show the total of all categories.

1. Salaries									
Salaries (Name/Position)	Hourly Cost (\$)	Hours/wk. or % FTE	Total Gross Salary (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost? Y/N			
	\$	*	= \$						
	\$	*	= \$						
	\$	*	= \$						
	\$	*	= \$						
Sub-Totals for Salaries Category						\$			

2. Fringe Benefits									
Name of Employee	Amount Gross Salary (\$)	Approved % per Work Plan or enter "N/A" & provide break-out	Benefit # 1 & Cost	Benefit # 2 & Cost	Benefit # 3 & Cost	Total Fringe Benefits (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost Y/N
	\$		\$	\$	\$	\$			
	\$		\$	\$	\$	\$			
	\$		\$	\$	\$	\$			
Sub-Total of Fringe Benefits Category						\$			

3. Travel * Cannot exceed cost limitations required by Section 112.061, Florida Statutes									
Name of Employee	Destination	Period of Trip (# of days)	Purpose of Trip	Amount Budgeted	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost Y/N		
				\$					
				\$					
				\$					
Sub-Total of Travel Category				\$					

4. Supplies - Other Expenses									
Description	Unit Cost (\$)	Quantity	Total Cost (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost Y/N			
	\$	=							
	\$	=							
	\$	=							
	\$	=							
Sub-Total of Supplies - Other Expenses Category			\$						

5. Equipment									
Description	Unit Cost (\$)	Quantity	Total Cost (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost Y/N			
	\$	=							
	\$	=							
	\$	=							
	\$	=							
Sub-Total of Equipment Category			\$						

6. Contractual Services									
Name of Vendor	Description	Fee/Rate (\$)	Quantity	Total Cost (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost Y/N		
		\$	=						
		\$	=						
		\$	=						
		\$	=						
Sub-Total of Contractual Services Category			\$						

7. Indirect Cost (if approved)									
Budget Category included in Base of Indirect Cost Calculations	Total Direct Costs for Budget Category	Approved Indirect Cost Rate (%) from Grant Work Plan	Total Indirect Cost for Budget Category (\$)	Total Indirect Costs for Grant	Total Indirect Costs for Match				
\$	*	=	\$	+	+				
\$	*	=	\$	+	+				
\$	*	=	\$	+	+				
\$	*	=	\$	+	+				
Sub-Total of Indirect Costs Category									
		=	\$	+	+				

8. Total Project Budget			
Budget Category	Total Costs for Budget Category	Total Grant Costs	Total Match Costs
\$	=	\$	+
\$	=	\$	+
\$	=	\$	+
\$	=	\$	+
Total Project Budget			
\$	=	\$	+



**GRANT ASSISTANCE PURSUANT
TO THE
CLEAN ENERGY
PROGRAM**

ATTACHMENT A

A. PROJECT INFORMATION SHEET

APPLICANT INFORMATION					
Project Title:		St. Johns County Projects for Clean Energy			
Project Location:		St. Johns County, St. Augustine, FL 32084			
Enter Applicants Eligibility Status: Governmental Agency, School District, Public Univ. etc (refer to Part III, Sect. A) Mandatory		Governmental Agency	Grant Application Category:		1
LEAD APPLICANT					
Contact Name:		Jay Kamys, Special Projects Coordinator			
Organization:		St. Johns County Environmental Division			
Address Line 1:		4040 Lewis Speedway			
Address Line 2:					
City:	St. Augustine	State:	FL	Zip:	32084 8637
Email:	skamys@sjcfl.us				
Phone:	(904)209-0626	Fax:	(904) 209-0627		
PARTNERING APPLICANT(S)					
Contact:					
Organization:					
Address Line 1:					
Address Line 2:					
City:		State:		Zip:	
Email:					
Phone:		Fax:			
<i>*Include additional partners as an addendum.</i>					
REQUIRED REGISTRATION INFORMATION					
Legal Name of Lead Applicant:		St. Johns County Board of County Commissioners			
FEID No:		F596000825			
DUNS No:		073236739			
CCR Expiration Date:		09/30/10			
MFMP Status:		Accepted: 11/04/09			
FUNDING REQUEST AND COST SHARE					
1. Total Amount of Grant Funds Requested:				\$ 500,000	
2. Total Matching Funds (Provided by applicant and project partners):				\$ 916,182	
3. Total Project Cost (Add amounts in 1 and 2):				\$1,416,182	
4. Match Percentage (Divide amount in 2 by amount in 3):				65 %	
JOBS CREATED/RETAINED					
1. Total Short Term Jobs				6	
2. Total Long Term Jobs				0	
3. Total Jobs (Add the numbers from 1 and 2)				6	
4. Total Florida Clean Energy Grant Funds Requested + Match (changed 6/9/10)				\$ 1,416,182	

5. Jobs Divisor (Divided the amount in 4 by \$92,000)	15.4
6. Job Score (Divide the number in 3 by the number in 5) <i>Please round to nearest whole number</i>	0

ENERGY SAVINGS AND ENERGY PRODUCTION

Activity	Million Source Btu Saved	MWh saved	Thousand Cubic Feet Natural Gas Saved	Gallons Gasoline Saved
Bldg 1 Chillers /drives/sensors Lighting/cool roof		882.6417		
Bldg 2 HVAC/DDC controllers		27.3090		
Total Source Btu Saved (Millions)	909.9507 MWh/yr			
Average Annual Savings per Dollar SEP Funds	<u>\$ 549.48 Energy Savings/dollar SEP **</u>			
Total Cost Savings	\$ 103,551 per year (based on MWh saved times .10/KWh). \$ 0.21/dollar of SEP funds saved in electric cost.			

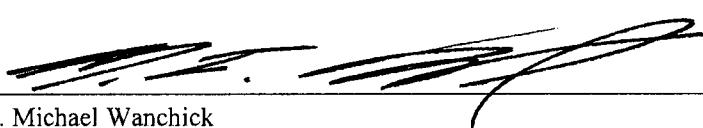
- ****Per FAQ # 119** "...SEP Dollars Requested / (Annual Energy Savings in kWh + Annual Renewable Energy Production in kWh) = Energy Savings per Dollar of SEP dollars requested."
- Per FAQ 120** "The Energy Savings and Energy Production table does not have the calculations asked for in the scoring criteria. Is it acceptable to change that table to provide the calculations and headings required? No."


GREENHOUSE GAS REDUCTION (ADDED 6/11/10)

Activity	Metric Tons Carbon Reduced
Bldg 1: chillers/drives/sensors/lighting / roof	529.4206
Bldg 2: HVAC/DDC controllers	16.3803
Total Carbon Reduced (metric tons)	545.8009

Per FAQ # 138 of 6/11/10 "...Only the green house gas reduction will be scored." Our GHG saved is 545.8009 metric tons/year per the attached calculator.

CERTIFYING OFFICIAL

Certifying Official's Signature <i>*If signed by a person designated by the local governing body, a copy of the resolution must be included.</i>	
Certifying Official's Name (printed):	Mr. Michael Wanchick
Title:	County Administrator
Organization:	Board of County Commissioners, St. Johns County, Florida

LEGALLY SUFFICIENT

 Name: Michael Wanchick
 Date: 6/15/10

PROJECT NARRATIVE

B. Project Background: To employ a comprehensive Energy Conservation Measure (ECM) program at 2 buildings.

Building 1: St. Johns County Health & Human Service Center was formally a community hospital. The 110,000 sf, 40 year old building was purchased ten years ago to provide a central location for Community Health Services. The building presently houses State, Local, and Federal offices providing medical outpatient services. Much work has been done to improve the Heating, Ventilation and Air Conditioning (HVAC) System with little reduction in energy consumption. The heart of the HVAC System, a 500 ton chiller plant, is in major need of replacing due to age and poor performance. The 40 year old building which has been re-configured to serve the multiple government agencies is in need of a lighting retrofit. The lighting retrofits will better serve our staff and citizens as well as be much more energy efficient than the present luminary system.

Building 2: Ponte Vedra Community Center and Concert Hall is a former church site with a 16,000 sf tabernacle which is being converted into a community center and concert hall in the Northeast quadrant of St. Johns County. The County is performing renovations with addition of only new fresh air units and installation of 5 new ac units. The old inefficient units (19 years old) are not being replaced due to lack of funding for that item. This project will replace all the remaining old HVAC systems in the building with high efficiency units thus improving comfort and reducing energy consumption. Additionally, St. Johns County will install a direct digital control (DDC) system so the HVAC system can be monitored, adjusted and set for its most efficient use at a remote site from the Facilities Maintenance office.

Project Team:

Michael B. Rubin, Director of Construction Services for St. Johns County. Mr. Rubin will be the overall responsible party for the project and manage all consultants, project managers and contractors. Mr. Rubin has held the position of Director of Construction Services for St. Johns County for 19 years. He will maintain complete authority over our consultants, contractors and project managers.

Gene Burns, Facilities Maintenance Manager for St. Johns County. Mr. Burns will provide oversight on all elements of the projects. Mr. Burns has been Facilities Maintenance Manager for 30 years and has maintained a Florida State Certified Contractors License for 25 years. Mr. Burns oversees the maintenance of all St. Johns County owned properties with a construction value of \$350 million.

Bill Behne, HVAC Trades worker III, Facilities Maintenance Department for St. Johns County. Mr. Behne holds a Class B HVAC contractor license acquired in 2000. Mr. Behne has worked for St. Johns County for 23 years in the HVAC and electrical field. During this time, Mr. Behne has worked on many HVAC projects for the County, including a Performance Contract with Florida Power and Light at the County Criminal Justice Facility and County Judicial Center for energy savings. Mr. Behne will work with Construction Services in the field for this project as needed.

Phyllis Thorpe, Project Coordinator, Construction Services for St. Johns County. Ms. Thorpe will be the project manager, handling the day-to-day project management duties, directing the consultant in the design for the remainder of the air conditioning system, overseeing the bid process and on-site management of the actual construction and installation of the new HVAC system.

Mike Dalton, Business Manager for the Facilities Maintenance Department. His primary responsibility will be oversight for all aspects of contracted building repairs for properties owned by St. Johns County. Mr. Dalton holds a Commercial Building Contractor and General Contractor's License and has over 25 years experience in building construction, facilities maintenance, and business management.

Name	Accreditations / Title	Exp Yrs)	Role In This Project	Employed By
Michael B. Rubin	Director of Construction Services	19	Project Manager	St. Johns County
Gene Burns	Facilities Maintenance Manager	30	Project Manager	St. Johns County
Mike Dalton	Business Manager	25	Project Manager	St. Johns County
Bill Behne	HVAC Trades worker III, Maintenance	23	Assistant Project Mgr.	St. Johns County
Phyllis Thorpe	Project Coordinator	7	Assistant Project Mgr.	St. Johns County
Larry Underwood	Project Development Manager	26	Team Project Dev.	Trane
Allan Bond	Equipment Retrofits Manager	26	Equipment Specifications	Trane
Lant Dubose	LEED-AP, BS Building Const., CEM	23	Project Development Mgr	Trane
Dean Switzer	BS Mechanical Engineering	34	Energy Engineer	Trane
Chris St. John	LEED-AP, BS Electrical Engineering	15	Project Dev. Mgr	Trane
Lant Dubose	LEED-AP, BS Building Const., CEM	23	Team Leader Proj. Dev.	Trane
Dean Switzer	BS Mechanical Engineering	34	Energy Engineer	Trane
Stephen Koontz	LEED-AP, BS Mech Eng.	13	Project Development	Trane
Neil Maldeis	LEED-AP, BS Mech Eng, CEM	26	Tech Design Leader	Trane
Steve Corson	LEED-AP, BS Ind. & Systems Eng	17	Project Development	Trane
Troy Billiot	BS Electrical Engineering	22	Mechanical Project	Trane
Randy Orr	LEED-AP	14	Control System Ldr.	Trane
Greg Ratter	BS Mechanical Engineering	23	Project Manager	Trane
Stuart Kirscht	CLEP (Cert. Lighting Effic.Prof.)	12	Lighting Eng.	Trane

PROJECT NARRATIVE (cont.)

C. DESIRED OBJECTIVES:

Overall Project Objectives:

- The use of high efficiency equipment combined with computerized controls will enable a return on investment that would have been lost in excess energy use.
- Improve operational control of the HVAC Systems with an advanced management system.
- In the current economic times, the cost of performing this work is at a record low and therefore maximizes the grant funds over and beyond the energy savings.

The Quantitative Benefits:

- The reduction of 910 Kilowatt hours per year consumed with the respective equipment improvements.
- The annual monetary savings of \$ 96,532 obtained by reduced power consumption.
- The reduction in Green House Gas of 546 metric tons per year as a result of the reduced energy consumption.

Building 1: St. Johns County Health Center:

- 1A: Chiller Replacement - Replacement of two, 250 ton chillers each with energy efficient models.
- 1B: Install a 400 HP adjustable speed drives on the new chillers.
- 1C: Install a 65 HP drive on the pumps with automation system.
- 1D: Install a 60 HP drive for control modifications on 10 air handling units.
- 1E: Install a 40 HP drive on the cooling tower and tower controller.
- 1F: Install Occupancy Sensors on 58 fan coils in the system.
- 2: For the Cool Roof Retrofit, Apply and Cool Roof Elastomeric Coating over 110,000 sf of roof surface which is currently 14 year old Modified Bitumen.
- 3A: Install 125, less than 40 watt florescent lights.
- 3B: Install 17, Light Emitting Diode exit signs.
- 3C: Install 33, "White Light" Light Emitting Diode systems which are over 30 watts each.
- 3D: Install 722, T8 or T5 fluorescent lights in existing fixtures.
- 3E: Install 90, T8 or T5 fluorescent lights in 2 foot fixtures.
- 3F: Install 813, T8 or T5 florescent lights in 3 foot and 4 foot fixtures.
- 3G: Install 3 metal halide lights that are less than 100 watts each.

Building 2: Cornerstone Hall:

- 4A: Install 17 conditioning units that have a greater than 15.5, less than 16.5 Seasonal Energy Efficiency Rating (SEER).
- 4B: Install 17 sensors to be controlled by the new energy management systems for the 62 ton units listed above.

D. PROJECT DESCRIPTION

Building 1: St. Johns County Health and Human Services.

This Energy Conservation Measure (ECM) will replace (2) two 250 ton chiller plants with (2) two 200 ton more efficient models with an Non-standard Part Load Value (NPLV) units rated at 0.360 Kw/ton or lower with Variable Frequency Drives (VFDs) to control the chilled water pump motors at the Health Center Building. This will allow the pump motor to modulate as the building's cooling load varies. The existing hydronic system is designed to move a constant volume of chilled water through the piping system to the air handling units, regardless of cooling demand. The new system will reduce chilled water flow as the demand for cooling reduces in the building. As the load is satisfied the VFD will slow the speed of the pump motor. Energy is saved because the motor consumes less energy at slower speeds and the chiller will operate more efficiently by cooling lower volumes of water.

The use of occupancy sensors in the spaces where the 58 fan coils are located will reduce usage when the space is unoccupied.

The roof over the entire 110,000 square foot building will have a cool roof system installed. This is expected to provide energy savings through the reflectivity of the surface. The cool roof will maintain a temperature closer to the ambient temperature resulting in less energy useage.

The energy efficient lighting retrofits of this ECM encompasses Lighting Retrofits in our building which totals 110,000 sf. It includes retrofits such as replacing older inefficient fluorescent 40 and 32 Watt systems with 25 or 28 Watt T-8 lamps and energy efficient ballasts to reduce energy consumption. Each new T-8 lamp requires 12-20% less electricity than the standard lamp it replaces. Replacing standard ballast with energy efficient ballasts can save anywhere between 10-40%. All Fluorescent lamped Exit Signs will be replaced with energy efficient LED lighting.

Building 2: Ponte Vedra Community Center and Concert Hall.

HVAC Equipment Replacement This ECM will replace existing HVAC equipment with new high efficient systems. Equipment types replaced will be Package and Split HVAC systems. Many of the systems at St. Johns County have reached or exceeded their useful life. As a result, energy consumption and repair cost at much higher than would be realized with more modem systems. The new systems will have significantly high SEER ratings and will use less energy than the existing systems and will have higher operational effectiveness.

The proposed upgrades include installing an Energy Management Control System (EMCS) which will totally manage and control the heating, ventilation, and air conditioning (HVAC) equipment. The front-end will communicate to all panels and points of the EMCS in the specified buildings via the use of the County's Wide Area Network (WAN). The EMCS will provide direct digital control (DDC) on HVAC equipment. The EMCS will cycle the equipment during unoccupied hours to maintain a setback temperature. With direct digital control, each piece of HVAC equipment and each zone will be scheduled to operate according to room or occupied space usage. All room thermostats in these areas will be replaced with temperature sensors wired into the EMCS.

D. PROJECT DESCRIPTION Cont.

Energy Conservation Measures		Buildings:						St. Johns County Health Center and Cornerstone Hall		
Major Tasks/Activity (ECM)	Quantity or Horse Power as Applicable	Total Installed Cost	MWH Savings from the ARRA Benefits Reporting Calculator	Cost Savings (MWH Savings times Current cost per kWh of 10 Cents per kWh) or Actual Calculated	Greenhouse Gas Savings from the ARRA Benefits Reporting Calculator (in Metric Tons)	Criteria Pollutant Savings from the ARRA Benefits Reporting Calculator (in Metric Tons)	Man Hours Required to perform the Retrofit	Man Hours Required to Manufacture the Equipment		
Facility Air Conditioning Systems Replacement and Modernization for Energy Conservation and Comfort Improvements (Includes the ECM's listed below as 1A through 1F)	See Below	\$ 574,000	648.09	\$ 64,809	388.73	2.10	1,812.00	2,150.00		
1A Chiller Replacement - Replacement of two @ 250 ton chillers with energy efficient models. NPLV .360 Kw/ton or lower. Basis of design Turbocor Multistack chillers MS250	2 @ 250 T	See Above	See Above	See Above	See Above	See Above	See Above	See Above		
1B VFD's Mounted on new chillers (Must be done with ECM #1A) 400 HP	400 HP	See Above	See Above	See Above	See Above	See Above	See Above	See Above		
1C VFD's on Secondary and Primary Pumps (including automation on pumps) 65 HP	65 HP	See Above	See Above	See Above	See Above	See Above	See Above	See Above		
1D VFD's on AHUs and VAV controls modification on 10 AHUs (60 HP)	60 HP	See Above	See Above	See Above	See Above	See Above	See Above	See Above		
1E VFD's on Cooling Tower Fans (40 HP) and tower controller	40 HP	See Above	See Above	See Above	See Above	See Above	See Above	See Above		
1F HVAC Occupancy Sensors on 58 fan coils	58	See Above	See Above	See Above	See Above	See Above	See Above	See Above		

2	Cool Roof Retrofit - Apply and Cool Roof Electrometric Coating over 110,000 sf of Roof Surface which is currently 14 year old Modified Bitumen	110,000 SF	\$ 293,700	46.0730	\$ 4,607	27.6352	0.1496	352	330
3	Lighting Retrofits for Energy Conservation	See Below	\$ 229,583	188.4824	\$ 24,385	113.0543	0.6120	2,033	508
3A	CFL (less than 40 W)	125	See Above	See Above	See Above	See Above	See Above	See Above	See Above
3B	LED Exit Signs	17	See Above	See Above	See Above	See Above	See Above	See Above	See Above
3C	"White Light" LED (greater than 30 W)	33	See Above	See Above	See Above	See Above	See Above	See Above	See Above
3D	T8 or T5 Lin. Fluor. (1 or 2 / 4-ft lamps)	722	See Above	See Above	See Above	See Above	See Above	See Above	See Above
3E	T8 or T5 Lin. Fluor. (2-ft or 3-ft lamps)	90	See Above	See Above	See Above	See Above	See Above	See Above	See Above
3F	T8 or T5 Lin. Fluor. (3 or 4 / 4-ft lamps)	813	See Above	See Above	See Above	See Above	See Above	See Above	See Above
3G	Metal Halide (less than 100 W)	3	See Above	See Above	See Above	See Above	See Above	See Above	See Above
4	Ponte Vedra Cornerstone Hall renovations including installation of upgraded Air Conditioning systems with DDC controls.	See Below	\$ 318,899	27.3090	\$ 2,731	16.3803	0.0887	2,160	330
4A	SEER > 15.5 and < 16.5 Air conditioning units	17	See Above	See Above	See Above	See Above	See Above	See Above	See Above
4B	Sensors to be controlled by the new energy management systems for > 20 to 63.3 tons units	17	See Above	See Above	See Above	See Above	See Above	See Above	See Above
	TOTAL: All Energy Conservation Measures (ECM)		\$ 1,416,182	909.95	\$ 96,532	545.80	2.950	6,357.00	3,318.00

PROJECT NARRATIVE (cont.)

E PROJECT /DELIVERABLES/OUTPUTS:

No.	Task/Activity Description	Deliverables/ Outputs	Start Month	Deadline/End Month
Health Center Building Chillers/Drives/Sensors				
1	Finalize engineering specifications	Establish final plans	5	5
	Material Procurement	Order, receive, prepare for installation	6	7
	Mobilization	Site prepared	7	2
	Construction Implementation (see below)	Install, test, begin use, complete work	7	9
1A	Install 250 Ton Chillers	Install, test, begin use, complete work	7	7
1B	Install 400 HP Adjustable Speed Drive	Install, test, begin use, complete work	7	7
1C	Install 65 HP drive on pumps	Install, test, begin use, complete work	7	7
1D	Install 60 HP drive on air handlers	Install, test, begin use, complete work	7	7
1E	Install 40 HP drive on cooling tower/controller	Install, test, begin use, complete work	7	7
1F	Install occupancy sensors	Install, test, begin use, complete work	8	8
Health Center Building Cool Roof				
2	Finalize engineering specifications	Establish final plans	5	5
	Material Procurement	Order, receive, prepare for installation	6	6
	Mobilization	Site prepared	6	6
	Construction Implementation (see below)	Install	6	7
	Cool Roof applied to 110,00 sf building	Install, close contract	7	7
Health Center Building Lighting Upgrades				
3	Finalize engineering specifications	Establish final plans	5	5
	Material Procurement	Order, receive, prepare for installation	6	6
	Mobilization	Site prepared	7	7
	Construction Implementation (see below)	Install, begin use	7	7
3A	Install 40 watt lights	Install, begin use	7	3
3B	Install LED exit signs	Install, begin use	7	7
3C	Install "white lights"	Install, begin use	7	7
3D	Install florescent per plan	Install, begin use	7	7
3E	Install florescent per plan	Install, begin use	7	7
3F	Install florescent per plan	Install, begin use	7	7
3G	Install metal halide lights	Install, begin use	7	7
Cornerstone Hall Building Renovation				
4	Material Procurement	Order, receive, prepare for installation	1	3
	Selection and Negotiation with Subs	Establish contracts	1	3
	Material Procurement	Order, receive, prepare for installation	1	3
4A	Install HVAC units	Test and begin use	1	3
4B	Install DDC controllers	Test and begin use	1	3

PROJECT BUDGET (cont.)

F. TOTAL BUDGET BY TASK:

Project Task		Grant Funds	Cost Share: Matching Funds and Other In-Kind Contributions	
			Matching Funds	Source
1A	Chiller Replacement	\$ 168,406	\$ 405,594	Energy Savings Performance Contract *
1B	VFD's Mounted on new chillers (Must be done with ECM #1) 400 HP	See Above	See Above	See Above
1C	VFD's on Secondary and Primary Pumps (including automation on pumps) 65 HP	See Above	See Above	See Above
1D	VFD's on AHUs and VAV controls modification on 10 AHUs (60 HP)	See Above	See Above	See Above
1E	VFD's on Cooling Tower Fans (40 HP) and tower controller	See Above	See Above	See Above
1F	HVAC Occupancy Sensors on 58 fan coils	See Above	See Above	See Above
2	Cool Roof Retrofit - Apply and Cool Roof Electrometric Coating over 110,000 sf of Roof Surface	\$ 86,296	\$ 207,404	Energy Savings Performance Contract *
3	Lighting Retrofits for Energy Conservation	\$ 67,298	\$ 162,285	Energy Savings Performance Contract *
3A	CFL (less than 40 W)	See above	See above	See above
3B	LED Exit Signs	See above	See above	See above
3C	"White Light" LED (greater than 30 W)	See above	See above	See above
3D	T8 or T5 Lin. Flour. (1 or 2 / 4-ft lamps)	See above	See above	See above

3E	T8 or T5 Lin. Flour. (2-ft or 3-ft lamps)	See above	See above	See above
3F	T8 or T5 Lin. Flour. (3 or 4 / 4-ft lamps)	See above	See above	See above
3G	Metal Halide (less than 100 W)	See above	See above	See above
4	Ponte Vedra Cornerstone Hall renovations including installation of upgraded Air Conditioning systems with DDC controls.	\$ 178,000	\$ 140,899	General Funds
4A	SEER >15.5 and < 16.5 Air conditioning units	See above	See above	See above
4B	Sensors to be controlled by the new energy management systems for > 20 to 63.3 tons units	See above	See above	See above
Totals:		\$ 500,000	\$ 916,182	
Total Project Cost:		\$ 1,416,182	= Grant Funds + Cost Share	

* Source of Funds for our Cost Share will be through our Energy Savings Contract and Guarantee of Savings from our Energy Savings Contractor (ESCO) partner, Trane.

PROJECT BUDGET

G. BUDGET SUMMARY:

Summarize the Total Project Cost by budget (including both requested grant funds and Match/leveraged funds) by Budget Category and round each Budget Category subtotal to the nearest whole dollar value. Use the format in the following table.

Budget Category	Grant Funds	Cost Share: Matching Funds and Other In-Kind Contributions	
		Funding	Source of Funds
1. Salaries		\$ 20,999	General Funds
2. Fringe Benefits		\$ 6,300	General Funds
3. Travel (if authorized)			
4. Supplies/Other Expenses			
5. Equipment : Cornerstone Hall	\$ 64,000	\$ 113,600	General Funds
6. Contractual Services Cornerstone Hall	\$ 114,000	\$ 775,283	Energy Savings Performance Contract *
St. Johns County Health Center	\$ 322,000		
7. Indirect (if authorized)			
Total Project Budget	\$ 500,000	\$ 916,182	
Total Project Cost	\$ 1,416,182	= Grants Funds + Cost Share	
Cost Share Percentage	65 %	= Cost Share / Total Project Cost	

* Source of Funds for our Cost Share will be through our Energy Savings Contract and Guarantee of Savings from our Energy Savings Contractor (ESCO) partner, Trane.

PROJECT BUDGET (cont.)

H. BUDGET DETAIL: Provide a detailed, line-item budget using the worksheet format shown below. Provide accurate calculations to justify the cost of each budget line-item. Round only the subtotals for each Budget Category amount to the nearest whole dollar value; these sub-totals must correspond to figures reflected in Section G, Budget Summary. Use additional lines if necessary. For each budget line-item, identify in the appropriate column if the cost is: 1) Grant or Match, 2) a Direct cost used to calculate Indirect Costs (if approved) and 3) whether the cost is Administrative in nature. Up to 10% of grant funds may be used for administrative costs, excluding the cost of meeting the reporting requirements of the program. Administrative costs are allowable, reasonable, and allocable Direct and Indirect costs related to overall management of the awarded grant (including travel).

A description of what is required for each Budget Category is as follows:

1. Salaries - Identify the persons to be compensated for work on this project by name (if known), position, and title. Show the hourly cost and total hours to be charged for each person or position. Divide annual salaries by 2080 hours and nine month academic salaries by 1560 hours, to find the hourly rate.
2. Fringe Benefits - Multiply the rate by the total salaries to which fringe benefits apply. If the rate is variable, explain and show calculations.
3. Travel - List trips by their purpose and/or destination. Indicate the number of days for each trip. The Commission will only reimburse for travel at the appropriate State of Florida rate (Section 112.061, Florida Statutes). Be prepared to provide the Commission with details on costs utilized to calculate the "Amount Budgeted" for each trip.
4. Supplies & Other Expenses - List expendable supplies by category description, unit costs and quantity. List other expenses not included in any of the above categories. Examples would be printing, copying, postage, communications, etc. Non-expendable equipment valued at less than \$1,000 may be listed also. Include only expenses directly related to the project, not expenses of a general nature. For Match only, list costs related to donated real property such as land (not to exceed fair market value of property).
5. Equipment - List non-expendable personal property/equipment valued at \$1,000 or more by description, unit cost, and quantity. Computers and data-processing equipment should be described in detail.
6. Contractual Services - Subcontractors should provide the same information required by this budget table, with the following exceptions: (a) when professional services are provided at a pre-existing approved rate or fee shown on the budget; or (b) the subcontract is to be obtained competitively. For either (a) or (b), show an estimated maximum amount.
7. Indirect Costs/Rate - The FECC prefers that Indirect Costs, if required, are utilized as Match. If Indirect Costs are requested to be reimbursed with grant funds, they must be authorized and based on a specified rate in consultation with the FECC. The Indirect Cost Rate and the Direct costs upon which the amount of Indirect Cost is calculated must be reasonable, measurable, documented and the Indirect Cost Rate must be consistently applied. Indirect Costs are included in project Administrative Costs as described above.
8. Total Budget Category - Show the total of all line-items within a Budget Category.
9. Total Budget - Show the total of all categories.

1. Salaries									
Salaries (Name/Position)	Hourly Cost (\$)	Hours/wk.	Total Gross Salary (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost? Y/N			
Mike Rubin/Director	\$ 44.00	* 3.75 *16 wks = 60	\$ 2,640	M	N	Y			
Gene Burns/Department Head	\$ 41.90	* 5.5 *16 wks = 88	\$ 3,687	M	N	Y			
Bill Behne/Trades worker III	\$ 27.24	* 16.25 *16 wks = 260	\$ 7,082	M	N	Y			
Phyllis Thorpe/Project Manager	\$ 20.40	* 15 *16 wks = 240	\$ 4,896	M	N	Y			
Mike Dalton/Business Manager	\$ 30.61	5.5 *16 wks = 88	\$ 2,694	M	N	Y			
Sub-Totals for Salaries Category			\$ 20,999						

Jobs: Contractor Hours = (1783 Bldg 2 + 9675 Bldg 1) + St. Johns County Staff Hours + 736 = 12,194 Long term jobs in 2012 = 0/2080 = 0 jobs

Short term jobs in 1st yr = 1,2194/2080 = 5.86 = 6 jobs.

2. Fringe Benefits									
Name of Employee	Amount Gross Salary (\$)	Approved % per Work Plan or enter "N/A" & provide break-out	Benefit # 1 & Cost	Benefit # 2 & Cost	Benefit # 3 & Cost	Total Fringe Benefits (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost Y/N
Mike Rubin	\$ 2,640	.30	\$	\$	\$	\$ 792	M	N	Y
Gene Burns	\$ 3,687	.30	\$	\$	\$	\$ 1,106	M	N	Y
Bill Behne	\$ 7,082	.30	\$	\$	\$	\$ 2,125	M	N	Y
Phyllis Thorpe	\$ 4,896	.30	\$	\$	\$	\$ 1,469	M	N	Y
Mike Dalton	\$ 2,694	.30	\$	\$	\$	\$ 808	M	N	Y
Sub-Total of Fringe Benefits Category						\$ 6,300			

3. Travel * Cannot exceed cost limitations required by Section 112.061, Florida Statutes - Not Apply

4. Supplies - Other Expenses - Not Apply

5. Equipment									
Description	Unit Cost (\$)	*	Quantity	=	Total Cost (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost	Y/N
5+ ton HVAC	\$ 13,000	*	4	=	\$ 52,000	G	N	N	N
5+ ton HVAC	\$ 18,433	*	6	=	\$ 110,600	M	N	N	N
DDC controls for HVAC	\$ 12,000	*	1 system	=	\$ 12,000	G	N	N	N
DDC controls for HVAC	\$ 3,000	*	1 system	=	\$ 3,000	M	N	N	N
Sub-Total of Equipment Category					\$ 177,600				

6. Contractual Services										
Name of Vendor	Description	Fee/Rate (\$)	*	Quantity	=	Total Cost (\$)	Grant = G or Match = M	Direct costs used to calculate Indirect Cost? Y/N	Admin. Cost	Y/N
To be determined	Cornerstone Hall DDC contractor	\$ 28,000	*	1	=	\$ 28,000	G	N	N	N
To be determined	Cornerstone Hall HVAC contractor	\$ 78,000	*	1	=	\$ 78,000	G	N	N	N
To be determined	Cornerstone Hall Engineering	\$ 8,000	*	1	=	\$ 8,000	G	N	N	N
Trane Energy Services	St. Johns County Health Center Energy Retrofit	\$ 775,283	*	1	=	\$ 775,283	M	N	N	N
Trane Energy Services	St. Johns County Health Center Energy Retrofit	\$ 322,000	*	1	=	\$ 322,000	G	N	N	N
Sub-Total of Contractual Services Category						\$ 1,211,283				

7. Indirect Cost (if approved) Not Apply

8. Total Project Budget					
Budget Category	Total Costs for Budget Category	=	Total Grant Costs	+	Total Match Costs
Salaries	\$ 20,999	=		+	\$ 20,999
Fringe Benefits	\$ 6,300	=		+	\$ 6,300
Equipment	\$ 177,600	=	\$ 64,000	+	\$ 113,600
Contractual Services	\$ 1,211,283	=	\$ 436,000	+	\$ 775,283
Total Project Budget	\$ 1,416,182	=	\$ 500,000	+	\$ 916,182

U.S. DEPARTMENT OF ENERGY
GOLDEN FIELD OFFICE



ENVIRONMENTAL CHECKLIST
(To Be Completed by Potential Recipient)

The Department of Energy (DOE) is required by the National Environmental Policy Act (NEPA) of 1969 as amended (42 U.S.C. 4332(2), 40 CFR parts 1500-1508) and DOE implementing regulations (10 CFR 1021) to consider the environmental effects resulting from federal actions, including providing financial assistance. Please provide the following information to facilitate DOE's environmental review. DOE needs to evaluate the requested information as part of your award negotiation.

Instructions and Handbook: Terms that appear in blue have more detailed information available to assist you in completing the form. Save the form to your local directory. Leave your internet browser open and open the form in Word from the local directory. Click on the blue term and it will automatically open the handbook at the appropriate place. Click on the back button to return to your form. Or, you may click [here](#) to open the handbook.

PART I: General Information

Project Title: St. Johns County Projects for Clean Energy
Solicitation Number: DE - FOA - 0000052

- Please describe the intended use of DOE funding in your proposed project. For example, would the funding be applied to the entire project or only support a phase of the project? Describe the activity as specifically as possible, i.e. planning, feasibility study, design, data analysis, education or outreach activities, construction, capital purchase and/or equipment installation or modification.
- Does any part of your project require review and/or permitting by any other federal, state, regional, local, environmental, or regulatory agency? Yes No
If yes, please provide a list of required reviews and permits in the appropriate item number in Part II.
- Has any review (e.g., NEPA documentation, permits, agency consultations) been completed? Yes No
If yes, is a finding or report available and how can a copy be obtained?
- Is the proposed project part of a larger scope of work? Yes No If yes, please describe.
Do you anticipate requesting additional federal funding for subsequent phases of this project? Yes No
If yes, please describe.
- Does the scope of your project **only** involve one or more of the following:
 - Information gathering such as literature surveys, inventories, audits,
 - Data analysis including computer modeling,
 - Document preparation such as design, feasibility studies, analytical energy supply and demand studies, or
 - Information dissemination, including document mailings, publication, distribution, training, conferences, and informational programs.

If the scope of your project is **limited to** the block(s) checked above, please skip to Part III, otherwise, continue to Part II.

PART II: Environmental Considerations

Table A. Please indicate if any of the following conditions or special areas is present, required, or could be affected by your project:

Item No.	Description	Yes/No	Specific nature or type of activity or condition. If a consultation, approval, or permit applies, please describe.
1	Clearing or Excavation (indicate if greater than 1 acre)	N	
2	Dredge and/or Fill. Specify the number of acres involved.	N	
3	New or Modified Federal/State Permits And/or Requests for Exemptions	N	
4	Pre-Existing Contamination	N	
5	Asbestos	N	
6	Criteria Pollutants	N	
7	Non-Attainment Areas	N	
8	Class I Air Quality Control Region	N	
9	Navigable Air Space	N	
10	Areas with Special Designation (e.g., National Forests, Parks, Trails)	N	
11	Prime, Unique or Important Farmland	N	
12	Archeological/Cultural Resources	N	
13	Threatened/Endangered Species and/or Critical Habitat	N	
14	Other Protected Species (Wild Burros, Migratory Birds)	N	
15	Floodplains	N	
16	Special Sources of Groundwater (e.g., Sole Source Aquifer)	N	
17	Underground Extraction/Injection (non-hazardous substances)	N	
18	Wetlands	N	
19	Coastal Zones	N	
20	Public Issues or Concerns	N	
21	Noise	N	
22	Depletion of a Non-Renewable Resource	N	
23	Aesthetics	N	

Table B. Would your project use, disturb, or produce any chemicals or biological substances? (i.e., pesticides, industrial process, fuels, lubricants, bacteria) If not, skip to Section C.

Please indicate if any of the materials or processes listed below applies.

Item No.	Description	Yes/No	Quantity	Permit required? Type?	Specific type, use, or condition
1	Polychlorinated Biphenyls (PCBs)	N			
2	Import, Manufacture, or Processing of Toxic Substances	N			
3	Chemical Storage, Use, and Disposal	N			
4	Pesticide Use	N			
5	Hazardous, Toxic, or Criteria Pollutant Air Emissions	N			
6	Liquid Effluent	N			
7	Underground Extraction/Injection (hazardous substances)	N			
8	Hazardous Waste	N			
9	Underground Storage Tanks	N			
10	Biological Materials. Indicate if genetically altered materials are involved.	N			

Table C. Would your project require or produce any radiological materials? If not, skip to Part III.

Please indicate if any of the materials listed below applies.

Item No.	Description	Yes/No	Quantity	Permit required? Type?	Specific nature of use
1	Radioactive Mixed Waste	N			
2	Radioactive Waste	N			
3	Radiation Exposures	N			

Part III: Contact Information

Please provide the name of the preparer of this form and a contact person who can answer questions or provide additional information.

Preparer Jan Brewer Telephone Number 904.209.0617 E-mail Address jbrewer@sjcfl.us

Contact Jay Kamys Telephone Number 904.209.0626 E-mail Address skamys@sjcfl.us

Non-Residential Retrofit

STEP 1

Enter ZIP Code here

Project ZIP Code (5 digits only) 32084

Location: [Redacted]

	STEP 2 (Then Enter Value Here)	STEP 3 (if necessary)	STEP 4 (if necessary)	STEP 5 (if necessary)
1 hp to 7.5 hp	Choose One			
10 hp to 25 hp	Choose One			
30 hp to 200 hp	Choose One			
Adjustable Speed Drive	Aggregate Horsepower	565		
Adjustable Speed Drive	Choose One			
Pump Improvement	Enter by Total Horsepower Controlled			
Lighting	Enter by Number of Units	125	On approx 60 hours/week	Switch or Relay or Always On
CFL (<40 W)	Choose One			
LED Exit Sign	Choose One	17		
"White Light" LED (<10 W)	Choose One			
LED Exit Sign LED (10 W to 30 W)	Choose One			
"White Light" LED (>30 W)	Choose One			
T8 or T5 Lin. Fluor. (2 ft or 3-ft lamps)	Number of Units	33	On approx 60 hours/week	Switch or Relay or Always On
T8 or T5 Lin. Fluor. (4 or 4-1/4-ft lamps)	Number of Units	90	On approx 60 hours/week	Switch or Relay or Always On
T8 or T5 Lin. Fluor. (5 or 6 /4-ft lamps)	Number of Units	722	On approx 60 hours/week	Switch or Relay or Always On
T8 or T5 Lin. Fluor. (7 or 8 /4-ft lamps)	Number of Units	813	On approx 60 hours/week	Switch or Relay or Always On
T8 or T5 Lin. Fluor. (9 or 10 /4-ft lamps)	Choose One			
Metal Halide (<100 W)	Choose One			
Metal Halide (100 W to 300 W)	Choose One			
Metal Halide (>300 W to 500 W)	Number of Units	3	On approx 80 hours/week	Switch or Relay or Always On
Metal Halide (>500 W to 1000 W)	Choose One			
Metal Halide (>1000 W)	Choose One			
Efficiency Ventilation Fans	Enter by Number Installed			
36-inch or Smaller Diameter	Choose One			
42-inch Diameter	Choose One			
48-inch Diameter	Choose One			
>48-inch Diameter	Choose One			
Refrigeration (ENERGY STAR Qualified)	Enter by Number Installed			
Refrigerator, < 20 cu ft.	Choose One			
Refrigerator, 20 - 48 cu ft.	Choose One			
Refrigerator, > 48 cu ft.	Choose One			
Refrigerator, CEE Tier 2, < 20 cu ft	Choose One			
Refrigerator, CEE Tier 2, 20-48 cu ft.	Choose One			
Refrigerator, CEE Tier 2, > 48 cu ft.	Choose One			
Freezer, < 20 cu ft.	Choose One			
Freezer, 20 - 48 cu ft.	Choose One			
Freezer, > 48 cu ft.	Choose One			
Freezer, CEE Tier 2, < 20 cu ft.	Choose One			
Freezer, CEE Tier 2, 20-48 cu ft.	Choose One			
Freezer, CEE Tier 2, > 48 cu ft.	Choose One			
Hi-Eff. Ice Machine, < 500 lbs/day	Choose One			
Hi-Eff. Ice Machine, 500-1000 lbs/day	Choose One			
Hi-Eff. Ice Machine, > 1000 lbs/day	Choose One			

Non-Residential Retrofit

STEP 1

Project ZIP Code (5 digits only): 32084

Enter ZIP Code here

Locations: FL

	STEP 2 Select Choice Below	STEP 3 Then Enter Value Here	STEP 4 (if necessary)	STEP 5 (if necessary)
Anti Sweat Heater Control - Cooler	Choose One			
Anti Sweat Heater Control - Freezer	Choose One			
Beverage Vending Machine Control	Choose One			
Night Covers on Tub-Type Cabinet	Choose One			
Strip Curtains on Walk-In Cooler Doorway	Choose One			
Domestic Hot Water				
Enter by Number of Units->				
Low-Flow Showerhead (Sym or Dormitory)	Choose One		Choose Heater Fuel	
Faucet-Aerator (Restroom or Dormitory)	Choose One		Choose Heater Fuel	
Pre-Rinse Sprayer (Commercial Kitchen)	Choose One		Choose Heater Fuel	
HVAC				
Packaged Air Conditioner (Split or Rooftop)	Choose Unit->	17		
Packaged Heat Pump	Choose One			
Packaged Terminal Air Conditioner	Choose One			
Packaged Terminal Heat Pump	Choose One			
Chillers	Water Cooled Screw/Scroll (150-300 tons)	2		
Cooling Tower	Choose One			
Refrigerant Charge Correction	Choose One			
Efficient Air Cooled Refrigeration Condenser	Choose One			
Air-Side Economizer	Choose One			
Occupancy Sensor For HVAC	<= 5.4 tons (3 Phase)	58		
Programmable T-Stat For Heat Pump	> 20 to 69.33 tons	17		
Boiler Controls (Large Forced-Draft Boilers Only)	Choose One			
Hot-Water Boiler	Choose One			
Steam Boilers (Nat Gas)	Choose One			
Boiler/Reset Controls	Choose One			
Furnace w/ ECM Fan Motor (Furnace AFUE >= 90%)	Choose One			
Ground Source Heat Pump				
Building Envelope				
Window Film				
Cool Roof		110,000		
Roof Insulation				
Natural Gas Radiant High Bay Heater				
Specific Applications				
Engineered Commercial Kitchen Ventilation Hood				
Water Heating				
Instantaneous Water Heater	Choose previous tank volume (gallons)->			
	Choose One			

Annual ARRA Energy Savings
 Non-Residential Retrofit
 for ZIP Code 32084

	Energy Savings			Greenhouse Gases (CO ₂ E) Metric Tonnes	Criteria Pollutants Metric Tonnes
	MWH	Fuel Oil Gallons	Propane Gallons		
Motors					
1 hp to 7.5 hp					
10 hp to 25 hp					
30 hp to 200 hp					
Motors Total					
Adjustable Speed Drive (ASD, aka VFD)					
Adjustable Speed Drive	621.5000			372.7842	2.0180
Adjustable Speed Drive (ASD, aka VFD) Total	621.5000			372.7842	2.0180
Pump Improvement (Replacement or Impeller Trim)					
Pump Improvement					
Pump Improvement (Replacement or Impeller Trim)					
Pump Improvement					
Lighting					
CFL (<40 W)	27.6723			16.5982	0.0899
CFL (>/=40 W)					
LED Exit Sign	4.0921			2.4545	0.0133
"White Light" LED (<10 W)					
"White Light" LED (>30 W)	12.6146			7.5664	0.0410
"White Light" LED (10 W to 30 W)					
T8 or T5 Lin. Fluor. (1 or 2 /4-ft lamps)	50.0385			30.0138	0.1625
T8 or T5 Lin. Fluor. (2-ft or 3-ft lamps)	7.6286			4.5757	0.0248
T8 or T5 Lin. Fluor. (3 or 4 /4-ft lamps)					
T8 or T5 Lin. Fluor. (5 or 6 /4-ft lamps)					
T8 or T5 Lin. Fluor. (7 or 8 /4-ft lamps)	85.7051			51.4071	0.2783

Annual ARRA Energy Savings
 Non-Residential Retrofit
 for ZIP Code 32084

	Energy Savings			Greenhouse Gases (CO ₂ E) Metric Tonnes	Criteria Pollutants Metric Tonnes
	MWH	MMCF Gallons	Fuel Oil Gallons		
Light					
T8 or T5 Lin. Fluor. (9 or 10 /4-ft lamps)					
Metal Halide(>1000 W)					
Metal Halide(<100 W)					
Metal Halide(>300 W to 500 W)					
Metal Halide(>500 W to 1000 W)					
Metal Halide(100 W to 300 W)					
Lighting Total	0.7313			0.4386	0.0024
Efficient Ventilation Fans					
>48-inch Diameter					
36-inch or Smaller Diameter					
42-inch Diameter					
48-inch Diameter					
Efficient Ventilation Fans Total	188.4824			113.0543	0.6120
Refrigeration (ENERGY STAR When Applicable)					
Refrigerator, < 20 cu ft,					
Refrigerator, > 48 cu ft,					
Refrigerator, 20 - 48 cu ft,					
Refrigerator, CEE Tier 2, < 20 cu ft					
Refrigerator, CEE Tier 2, >48 cu ft					
Refrigerator, CEE Tier 2, 20-48 cu ft					
Freezer, < 20 cu ft,					
Freezer, > 48 cu ft,					
Freezer, 20 - 48 cu ft,					
Freezer, CEE Tier 2, <20 cu ft					
Freezer, CEE Tier 2, >48 cu ft					
Freezer, CEE Tier 2, 20-48 cu ft					
Hi-Eff. Ice Machine, < 500 lbs/day					
Hi-Eff. Ice Machine, > 1000 lbs/day					
Hi-Eff. Ice Machine, 500-1000 lbs/day					

Annual ARRA Energy Savings
 Non-Residential Retrofit
 for ZIP Code 32084

	Energy Savings			Greenhouse Gases (CO ₂ E) Metric Tonnes	Criteria Pollutants Metric Tonnes
	MWH	MMCF Gallons	Fuel Oil Gallons		
Refrig					
Anti Sweat Heater Control - Cooler					
Anti Sweat Heater Control - Freezer					
Beverage Vending Machine Control					
Night Covers on Tub-Type Cabinet					
Strip Curtains on Walk-In Cooler Doorway					
Refrigeration (ENERGY STAR When Applicable) Total					
Domestic Hot Water					
Low-Flow Showerhead (Gym or Dormitory)					
Faucet-Aerator (Restroom or Dormitory)					
Pre-Rinse Sprayer (Commercial Kitchen)					
Domestic Hot Water Total					
HVAC					
Packaged Air Conditioner (Split or Rooftop)	26.5496			15.9248	0.0862
Packaged Heat Pump					
Packaged Terminal Air Conditioner					
Packaged Terminal Heat Pump					
Chillers	0.4300			0.2579	0.0014
Cooling Tower					
Refrigerant Charge Correction					
Efficient Air Cooled Refrigeration Condenser					
Air-Side Economizer					
Occupancy Sensor For HVAC	26.1563			15.6889	0.0849
Programmable T-Stat For Heat Pump	0.7594			0.4555	0.0025
Boiler Controls (Large Forced-Draft Boilers Only)					
Hot-Water Boiler					
Steam Boilers (Nat Gas)					
Boiler Reset Controls					
Furnace w/ ECM Fan Motor (Furnace AFUE > / = 90%)					
Ground Source Heat Pump					

Annual ARRA Energy Savings
 Non-Residential Retrofit
 for ZIP Code 32084

	Energy Savings			Greenhouse Gases (CO ₂ E) Metric Tonnes	Criteria Pollutants Metric Tonnes
	MWH	MMCF	Fuel/Oil Gallons Propane Gallons		
HVAC Total	53.8954			32.3272	0.1750
Building Envelope					
Window Film					
Cool Roof	46.0730			27.6352	0.1496
Roof Insulation					
Natural Gas Radiant High Bay Heater					
Building Envelope Total	46.0730			27.6352	0.1496
Specific Applications					
Engineered Commercial Kitchen Ventilation Hood					
Specific Applications Total					
Water Heating					
Instantaneous Water Heater					
Water Heating Total					
Grand Total	909.9507			545.8009	2.9546

RESOLUTION 2010- 127

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO SUBMIT AN APPLICATION SEEKING FUNDING ASSISTANCE FROM THE FLORIDA ENERGY AND CLIMATE COMMISSION.

WHEREAS, the Florida Energy and Climate Commission allows local governments to apply for a grant to provide funding for renewable energy programs, equipment installations, and market transformation activities; and

WHEREAS, the deadline for the County submitting the application is June 18, 2010; and

WHEREAS, the County staff has reviewed the Grant application and after a review has determined that nothing contained in the Grant application, none of the requirements, restrictions or obligations associated with award of the Grant, or the Grant itself, negatively impact the interests of the County; and

WHEREAS, after a review of the Grant application the County has determined that an award from the Florida Energy and Climate Commission for energy efficiency retrofit improvements are in the overall interests of the County.

NOW, THEREFORE BE IT RESOLVED, by the Board of County Commissioners of St. Johns County, Florida that:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution, and such Recitals are adopted as Findings of Fact.

Section 2. The Board of County Commissioners hereby authorizes the County Administrator, or designee, to submit a grant application (attached hereto, and incorporated herein), on behalf of St. Johns County to the Florida Energy and Climate Commission.

Section 3. The Board of County Commissioners hereby authorizes the County Administrator, or designee, to execute any other paperwork necessary or associated with the application for the Florida Energy and Climate Commission.

Section 4. To the extent that there are typographical and/or administrative errors and/or omissions that do not change the tone, tenor, or context of this Resolution, then this Resolution may be revised with subsequent approval of the Board of County Commissioners.

Section 5. That this Resolution shall be effective upon adoption.

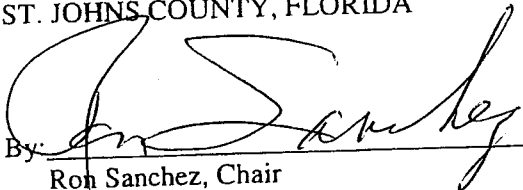
I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE AND CORRECT COPY AS APPEARS ON RECORD IN ST. JOHNS COUNTY, FLORIDA WITNESS MY HAND AND OFFICIAL SEAL THIS 15TH DAY OF June 2010
CHERYL STRICKLAND, CLERK
Ex-Officio Clerk of the Board of County Commissioners

BY Sam Halterman D.C.

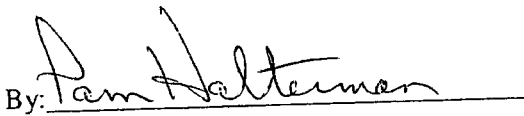


PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this 15th day of June, 2010.

BOARD OF COUNTY COMMISSIONERS OF
ST. JOHNS COUNTY, FLORIDA

By: 
Ron Sanchez, Chair

ATTEST: Cheryl Strickland, Clerk

By: 
Deputy Clerk

RENDITION DATE 6/15/10

