

## **ATTACHMENT "A"**

### **TECHNICAL SPECIFICATIONS**

#### **1. INTRODUCTION**

- 1.1. Sarasota County will be implementing a "Get Energy Smart" Retrofit Program as a part of its American Recovery and Reinvestment Act Energy Efficiency and Conservation Block Grant Program, with a goal of encouraging adoption of home energy efficiency retrofit strategies within the community. As part of this Program, the County will distribute do-it-yourself-energy saving kits to homeowners. Sarasota County intends to purchase items in the following categories: ENERGY STAR® labeled compact fluorescent light bulbs (CFLs), EPA WaterSense-labeled faucet aerators, smart power strips, wall outlet and wall single flip switch insulation gaskets, rope caulk weather-stripping, and reusable tote bags for the public's use as a carry-all for the energy saving kits.
- 1.2. Devices on this bid which are specified to be made and assembled in the USA must comply with the "Buy American Act" provisions. Those devices are identified in their technical specifications below and the Department of Energy (DOE) guide for documenting compliance with the Recovery Act Buy American provisions is included with this Invitation for Bids as Exhibit I.
- 1.3. Purchases will also include energy conservation devices to be incorporated in Sarasota County facilities that include smart power strips and Energy Management System for Refrigerated Vending Machines.

#### **2. REQUIRED BID FORM TECHNICAL INFORMATION**

- 2.1. Each bid category has a product information table attached to the Bid Form. Product information tables not completed shall be deemed non-responsive. Bidders may also attach product specification information as an option, to include, but not limited to warranties or incentives.

#### **3. CATEGORY A: ENERGY STAR® COMPACT FLUORESCENT LIGHT (CFL) LIGHT BULB REQUIREMENTS**

- 3.1. Equivalent to 60 watt incandescent bulb only
- 3.2. Instant start
- 3.3. Screw base to fit existing light fixtures
- 3.4. Minimum ENERGY STAR® rating for lamp life of 10,000 hours
- 3.5. Minimum 800 lumen output ENERGY STAR® CFL with a minimum 2700K Kelvin rating.
- 3.6. Warm or soft light color (Kelvin rating)
- 3.7. No greater than 4.5 inches long (for compatibility with the greatest number of light fixtures)
- 3.8. All products submitted under this bid must have Underwriters Laboratory approval
- 3.9. Single unit recyclable packaging (no plastic bubble) must include prominent display of ENERGY STAR® label.
- 3.10. Technical information for 60-watt equivalent ENERGY STAR® CFLs to be submitted with the bid on the product information table must include:
  - 3.10.1. Indicate manufacturer and model number of ENERGY STAR® labeled CFL.
  - 3.10.2. Indicate actual CFL wattage as equivalent to 60 watt incandescent bulb.
  - 3.10.3. List Kelvin rating (must meet or exceed minimum requirement).
  - 3.10.4. List rated lamp life in hours (must meet or exceed minimum requirement).
  - 3.10.5. Indicate any warranty.

#### **4. CATEGORY B & CATEGORY C: EPA WATERSENSE LABELED FAUCET AERATOR REQUIREMENTS**

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- 4.1. Maximum flow rate of 1.5 Gallons Per Minute (gpm) at 60 Pounds Per Square Inch (psi).
  - 4.2. Shall not be packaged, marked, or provided with instructions directing the user to an alternative water-use setting that would override the maximum flow rate of 1.5 gpm.
  - 4.3. Dual threaded to fit both male and female connections on standard faucets.
  - 4.4. Aerated stream, pressure compensating with minimum flow rate of 0.8 gpm at 20 psi.
  - 4.5. Technical information for EPA WaterSense labeled faucet aerators to be submitted with the bid on the product information table must include:
    - 4.5.1. Listing the manufacturer and model number for the verification of compliance with EPA WaterSense for the faucet aerator submitted.
    - 4.5.2. Indicate actual flow rate in gpm.
    - 4.5.3. Indicate if the WaterSense label is prominently displayed on packaging.
    - 4.5.4. Indicate whether the aerator is made and assembled in the USA. For reference to applicability to DOE Buy American provisions, see Exhibit I.
5. CATEGORY D: SMART POWER STRIP REQUIREMENTS
- 5.1. Power strip that receives a main device (computer, TV, etc.) into the primary (control) outlet and peripheral appliances (printer/scanner or VCR/cable box, etc.) into ancillary power strip outlets. When the main device is shut off, "smart" power strip auto-switching technology automatically shuts down devices that are not in use.
  - 5.2. All products submitted under this bid must have Underwriters Laboratory approval.
  - 5.3. Minimum 1225 joules of surge protection.
  - 5.4. Minimum two always-on outlets, six switchable off outlets and 6' cord length.
  - 5.5. Outlets clearly marked as to what devices are to be plugged in (control, always on, peripherals).
  - 5.6. The device must have an EMI/RFI (Electromagnetic Interference/Radio Frequency Interference) filter to prevent waves from one electronic device to cause malfunctions or interference in another.
  - 5.7. Easy to understand instructions for use to maximize energy savings must be included in the product packaging.
  - 5.8. Technical information for Smart Power Strips to be submitted with the bid on the product information table must include:
    - 5.8.1. List the power cord length in feet (must or exceed meet minimum requirement).
    - 5.8.2. List the number of always-on outlets.
    - 5.8.3. List the number of switchable off outlets.
    - 5.8.4. Indicate if easy to understand instructions for use to maximize energy savings are included in packaging as required.
6. CATEGORY E & CATEGORY F: WALL OUTLET AND WALL SINGLE FLIP SWITCH INSULATION GASKETS REQUIREMENTS
- 6.1. Flame retardant polyethylene insulating foam gasket for installation behind faceplates of wall electrical outlets, and single flip wall switches to prevent air leakage and the loss of heat and cold through receptacles or switches located on outside walls.
  - 6.2. UL listed material that meets UL94HF1.
  - 6.3. Installation instructions must be included in the product packaging.
  - 6.4. Technical information for wall outlet and wall switch to be submitted with the bid on the product information table must:
    - 6.4.1. List the number of gaskets in each package.
    - 6.4.2. Indicate whether gaskets are made and assembled in the USA. For reference to applicability to DOE Buy American provisions, see Exhibit I.
    - 6.4.3. Indicate if the installation instructions are included in packaging as required.

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7. CATEGORY G & CATEGORY H: ROPE CAULK INSULATION REQUIREMENTS
  - 7.1. Self-stick caulk weather-strip must be designed to seal small gaps and be a minimum of 90 feet long.
  - 7.2. Rope caulk must remain soft and pliable for use with irregular gaps.
  - 7.3. Must be compatible with indoor/outdoor use.
  - 7.4. Installation instructions must be included in the product packaging.
  - 7.5. Technical information for rope caulk insulation to be submitted with the bid on the product information table must:
    - 7.5.1. List the length of roll in feet (minimum 90 foot required).
    - 7.5.2. Indicate whether the rope caulk is made and assembled in the USA. For reference to applicability to DOE Buy American provisions, see Exhibit I.
    - 7.5.3. Indicate if installation instructions are included in packaging as required.
  
8. CATEGORY I & CATEGORY J: REUSABLE TOTE BAG REQUIREMENTS
  - 8.1. The reusable tote bag must be logo free and made with at least 30% post consumer recycled material such as plastic or post industrial material such as cotton.
  - 8.2. Bag must have reinforced carrying handles.
  - 8.3. Bag must be made of unbleached or colorfast fabric.
  - 8.4. Bag must be manufactured without phthalates.
  - 8.5. Packaging of the bags for end-user distribution must have no individual packaging or disposable primary packaging (not including shipping or transport packaging).
  - 8.6. If bag or insert or liner is recyclable, compostable or accepted through a take-back system, the bag must contain the instructions for the consumer so that the proper venues can be sought in returning the bag to the closed-loop system.
  - 8.7. Minimum dimensions for the bag size are 12" long X 14" high X 4" wide.
  - 8.8. Technical information for reusable tote bags to be submitted with the bid on the product information table must:
    - 8.8.1. Indicate the manufacturer of the tote bag.
    - 8.8.2. List the size dimensions of the bag (must meet minimum requirements).
    - 8.8.3. Indicate the recycled content (must meet or exceed minimum requirements).
    - 8.8.4. Indicate whether the tote bags are made and assembled in the USA. For reference to applicability to DOE Buy American provisions, see Exhibit I.
    - 8.8.5. Indicate the color of the tote bags.
  
9. CATEGORY K: ENERGY MANAGEMENT SYSTEM FOR REFRIGERATED VENDING MACHINES REQUIREMENTS
  - 9.1. Device that is compatible with all types of cold drink vending machines must be safe for all machines and must keep drinks cold.
  - 9.2. Device shall utilize Passive Infrared Sensor to power down the machine when the area surrounding it is vacant. It must never power down the vending machine while the compressor is running, thereby eliminating compressor short-cycling.
  - 9.3. All products submitted under this bid must have Underwriters Laboratory approval.
  - 9.4. Device must be easy to install without modifications of any type to the vending machine.
  - 9.5. Indoor rated devices must meet or exceed the performance and specifications of VendingMiser model VM 170 machines.
  - 9.6. Outdoor rated devices must meet or exceed the performance and specifications of VendingMiser model VM 180 machines.
  - 9.7. Technical information for Energy Management Systems for Vending Machines to be submitted with the bid on the product information table must:

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- 9.7.1. Indicate the manufacturer and model of the energy management device for both outdoor and indoor vending machines.
- 9.7.2. Indicate whether the Energy Management System s are made and assembled in the USA. For reference to applicability to DOE Buy American provisions, see Exhibit I.

10. ESTIMATED QUANTITIES TABLE

- 10.1. The quantities listed on the Bid Forms are estimates for purchase by Sarasota County. The Cities of Sarasota and North Port are also participating in this program and will likely be purchasing additional quantities as outlined below through a piggy back on the award that results from this bid. Please consider the cumulative quantities below in providing your pricing. These quantities are estimates only and no guarantee is made as to the actual volume.

ITEM	ESTIMATED QUANTITIES			
	Sarasota County	North Port	City of Sarasota	Total
Smart Power strips	3,115	732	300	4,147
CFL Bulbs	8,200	2,470	800	11,470
Faucet Aerators	2,537	672	300	3,509
Rope Caulk	1,500	262	100	1,862
Wall outlet insulation gaskets	7,500	2,096	800	10,396
Wall switch flip insulation gaskets	7,500	2,096	800	10,396
Reusable bags	895	262	100	1,257