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Details of the Comptroller Awards First Round of Grants for Renewable Energy are listed below. If you are interested in having SPI point you to specific opportunities, contact Reagan Weil at 512.531.3900.

## **Comptroller Awards First Round of Grants for Renewable Energy Projects (3/16/10)**

Distributed Renewable Energy Technology Program - Awarded projects to date;  
Administered by State Energy Conservation Office

### **St. Philip's College – San Antonio**

ARRA Funds Awarded: \$2,000,000 Match: \$2,000,000 Total Project: \$4,000,000

St. Philip's College (SPC), one of the colleges of the Alamo Colleges, will install a 400 kW grid-tied solar photovoltaic system on the roof of the Building One at St. Philip's College's Southwest Campus in San Antonio. The 400 kW solar photovoltaic (PV) system is projected to produce a total output of 544,193 kWh per year, which will be consumed within the building. Excess generation capacity will be sold to CPS Energy via net metering.

### **Carroll Independent School District - Grapevine**

ARRA Funds Awarded: \$2,000,000 Match: \$1,000,000 Total Project: \$3,000,000

The Carroll ISD will install a 372.6 kW roof-mounted photovoltaic array as well as a 194.4 kW carport photovoltaic array on the new Carroll ISD Middle School for a total installed size of 567 kW. The system achieves approximately 67% of the anticipated demand of the middle school and produce approximately 832,569 kWh of electricity on an annual basis.

### **University of Texas - Southwestern Medical Center - Dallas**

ARRA Funds Awarded: \$2,000,000 Match: \$400,000 Total Project: \$2,400,000

The University of Texas - Southwestern Medical Center (UTSWMC) will install a 245 kW solar photovoltaic (PV) carport on the UTSWMC campus in Dallas at the Thermal Plant. This array will be mounted on two canopies over the parking aisles. Each canopy

will support 588 modules for a total of 1,176 solar modules. The system configuration will generate approximately 328,999 kWh per year of clean, renewable electricity.

### **City of Bedford – Public Library**

ARRA Funds Awarded: \$1,998,800 Match: \$2,215,335 Total Project: \$4,214,135

The City of Bedford will install a 244 kW grid-connected high performance solar energy system on the flat roof of the new City of Bedford Library. The PV system will deliver 343 kWh of on-site electricity annually, which will reduce the building's utility supplied electricity usage by 39%.

### **The University of Texas at Arlington**

ARRA Funds Awarded: \$1,832,000 Match: \$368,000 Total Project: \$2,200,000

The University of Texas at Arlington (UTA) will install a 500 kW grid-tied photovoltaic (PV) system, to be located atop the parking structures of a newly constructed project at the UT Arlington adjacent to the Special Events Center (SEC).

### **Grapevine - Colleyville Independent School District Grapevine**

ARRA Funds Awarded: \$1,727,226 Match: \$431,806 Total Project: \$2,159,032

Grapevine-Colleyville ISD will install a 264 kW solar photovoltaic (PV) system mounted on a parking canopy structure positioned over 120 parking lot spaces of the Grapevine High School campus. The project will create the largest solar installation in a K-12 school district in Texas and will offset green house gas emissions for the district as well as reduce the District's carbon footprint. The installation of the PV system is anticipated to save the COSD \$31,135 per year savings on electric utility use.

### **The County of Cameron – Harlingen, San Benito, Brownsville**

ARRA Funds Awarded:	Match:	Total Project:
\$1,713,326.20	\$428,331.60	\$2,141,657.80

The County of Cameron will install four solar photovoltaic (PV) systems totaling 221.76 kW at four county facilities in Cameron County. The systems will be roof mount and grid

tied. The four locations are: 1) The Judicial/Administration Building – (100.8 kW); 2) the Harlingen Annex – (20.16 kW); 3) The Oscar C. Dancy Building – (50.5 kW); 4) The San Benito Annex – (50.4 kW).

### **Austin Community College (ACC) - Austin**

ARRA Funds Awarded:	Match:	Total Project:
\$1,594,369.75	\$398,592.44	\$1,992,962.19

The Austin Community College (ACC) will install two grid-tied solar photovoltaic (PV) systems on its Northridge Campus and its Eastview Campus. The systems will generate 395,136 kWh per year, representing an annual energy savings of over \$28,645.

### **Texas Southmost College (TSC) - Harlingen**

ARRA Funds Awarded:	Match:	Total Project:
\$1,526,474.88	\$344,600	\$1,871,074.88

Texas Southmost College (TSC) will install a 206 kW hybrid system composed of photovoltaic (PV) panels and a wind turbine to generate renewable energy at the International Technology Education and Commerce Center (ITECC) located in Brownsville. The PV part accounts for 106 kW of installed capacity and the wind turbine is rated at 100k kW. The hybrid system will be tied directly to the grid. Implementation of a hybrid system was based on the complementary behavior of solar-and wind-based generation.

### **Texas Parks and Wildlife Department – Region II**

ARRA Funds Awarded: \$1,320,326 Match: \$330,082 Total Project: \$1,650,408

The Texas Parks and Wildlife Department will install solar photovoltaic (PV) generation systems providing a total of 100 kW across six Texas State Park sites. These projects will save the agency over \$23,842 per year. Location 1) Government Canyon SP - 10 kW; 2) Bryan FH – 10 kW; 3) McKinney Falls SP-20 kW; 4) Sheldon Observatory Tower – 20Kw; 5) State Park Region 4 HQ – 20 kW; 6) Galveston Isle – 10 kW.

### **Texas Parks and Wildlife Department – Region I**

ARRA Funds Awarded: \$1,301,501 Match: \$325,375 Total Project: \$1,626,876

The Texas Parks and Wildlife Department will install solar photovoltaic (PV) generation systems providing a total of 125 kW across seven Texas State Park sites. These projects will save the agency over \$23,842 per year. Location 1) Lake Tawakoni SP – 10 kW; 2) Ray Roberts Lake SP - 20 kW; 3) Cooper Lake SP – 20 kW; 4) Jasper FH – 10 kW; 5) Cedar Hill SP – 30 kW; 6) Lake Arrowhead SP – 15 kW; 7) San Angelo SP – 20 kW.

### **The City Irving – Irving Public Library**

ARRA Funds Awarded: \$1,158,316 Match: \$231,663 Total Project: \$1,389,969

The City of Irving Public Library will install a 144 kW no-penetrating roof-mounted solar photovoltaic (PV) system as part of the effort to promote the City's sustainability vision to its residents. The system will produce 202.032 kWh of electricity annually at an estimated value of \$14,142 per year.

### **The City of Duncanville**

ARRA Funds Awarded:	Match:	Total Project:
\$1,121,208	\$280,302.20	\$1,401,510.20

The City of Duncanville will install three solar PV systems totaling 147.84 kW at three city facilities. The systems will be roof mount and grid tied. The three locations are: 1) The City Hall/Police Station – (43.68 kW); 2) the Recreational Center/Library – (62.16 kW); The Senior Center – (42 kW).

### **University of Texas – San Antonio**

ARRA Funds Awarded: \$1,080,000 Match: \$317,837 Total Project: \$1,397,837

The University of Texas – San Antonio (UTSA) will install PV systems at the University Center Building III (UCBIII) and the Support Services Building (SSB) on campus. The UCBIII building will be rated at 140 kW and the SSB building will be rated at 12 kW. Energy monitoring sensors, data loggers will be implemented and data will be collected and sent to a central monitoring system through the internet.

### **Texas State Technical College - Waco**

ARRA Funds Awarded: \$978,226 Match: \$246,363 Total Project: \$1,224,589

TSTC-Waco will install a 219.4 kW grid-tied, solar array on the campus' Electronics Center and its adjacent parking lot. In addition to increasing the building's energy efficiency and reducing utility costs, the project is designed to provide hands-on training lab area for matriculated and/or customized industrial training in solar panel installation and maintenance. A segment of the roof directly above the TSTC Renewable Energy Lab will be configured with a variety of racking and mounting systems, modules, and inverters, and will be accessible to trainees. Having access to working solar arrays, with students performing routine efficiency and maintenance checks on the arrays, will complement the traditional classroom/lab areas in the building utilized by TSTC Waco's new Solar Technician instructional program.

### **City of Grand Prairie**

ARRA Funds Awarded:	Match:	Total Project:
\$872,809	\$218,202.40	\$1,091,011.40

The City of Grand Prairie will install 107.52 kW of grid-tied roof-mount solar photovoltaic (PV) systems at three city facilities. The three facilities are: 1) The Charles England Building (24.57 kW); 2) The City Development Center – (77.07 kW); 3) The Teri Jackson Tourist Information Center – (5.88 kW). The solar PV panels installed on sloped roofs will be visible from the ground.

### **Hopkins County – Sulphur Springs**

ARRA Funds Awarded: \$827,883 Match: \$354,079 Total Project: \$1,181,965

Hopkins County will install 187 kW grid-tied solar photovoltaic (PV) system on the County's Regional Civic Center. The annual projected system production of the solar system is 265,684 kWh and the projected monthly kWh production is 22,140kWh. The projected percent of usage offset by the solar PV system is 41%.

### **Texas Parks and Wildlife Department – Austin Headquarters**

ARRA Funds Awarded: \$821,386 Match: \$165,600 Total Project: \$986,986

The Texas Parks and wildlife Department will install a 92 kW solar photovoltaic (PV) system at the main agency headquarters building in Austin. The installation will save the agency over \$17,500 per year in energy savings.

## **Adjutant General's Department of Texas Military Forces at Camp Mabry Austin**

ARRA Funds Awarded:	Match:	Total Project:
\$799,939	\$199,984.88	\$999,923.88

The Adjutant General's Department will install a 149 kW grid-tied photovoltaic (solar) power system on a carport structure which will be adjacent to the camp headquarters. The project will have multiple benefits to the base: as distributed renewable energy generating systems; as a functional structural asset to the facility; and as an educational component providing insight about renewable energy to the nearly 800 visitors and employees to the base daily. The system will generate 199 kWh of non-polluting, free, renewable energy each year, offsetting a portion of the current energy load.

## **The University of Texas Health Science Center – San Antonio**

ARRA Funds Awarded: \$794,121    Match: \$198,530    Total Project: \$992,651

The University of Texas Health Science Center (UTHSC) will install a 156 kW grid-tied photovoltaic (PV) renewable energy system on the roof of the south Texas Research Facility (STRF) and an adjacent parking lot. The 104 kW roof mounted PV system will be attached to the upper tapered roof of the 3-story STRF building. The 52 kW carport structure will be added adjacent to the building.

## **Hutto Independent School District - Hutto**

ARRA Funds Awarded: \$617,927    Match: \$367,822    Total Project: \$985,749

Hutto ISD will install a 200 kW grid-tied, roof-mounted solar PV System on Elementary School #6. Installation of meters, data loggers, communications equipment for displaying real-time data, performance metrics and indicators, power and energy generation and system status overviews will be part of this installation process. There will be an education component to this installation. A 42" touch screen monitor that will be mounted in a highly visible and accessible location for students and visitors will display informational graphics about the system and solar power in general.

## **Shallowater Independent School District**

ARRA Funds Awarded: \$476,800    Match: \$140,000    Total Project: \$616,800

The Shallowater ISD will install a 78 kW grid-tied roof-mounted solar photovoltaic (PV) system on the Shallowater Intermediate School coupled with five wind turbines already installed. This will offer significant environmental and economic benefits and highlight the ISD's long-term vision and enable the ISD to substantially minimize the risk of rising costs of conventional energy in the future.

### **Texas Parks and Wildlife Department – Region III**

ARRA Funds Awarded: \$455,203 Match: \$113,801 Total Project: \$569,004

The Texas Parks and Wildlife Department – Region III will install 40 kW of solar PV generation systems at three sites. The three site locations are: 1) State Park Region 1 Headquarters – (5 kW); 2) Choke Canyon SP – (15 kW); 3) Mustang Isle – (20 kW).

### **The City of San Antonio**

ARRA Funds Awarded: \$433,000 Match: \$120,000 Total Project: \$553,000

The City of San Antonio will install 48 kW of grid-tied solar photovoltaic (PV) power generation capacity at the Mission Verde Center. The solar power will consist of solar Array's mounted on the building's roof top and a parking structure. The Center is a workforce training center that offers sustainability education in green construction and plumbing, and solar/smart grid training.

### **Texas State Technical College - Harlingen**

ARRA Funds Awarded: \$431,000 Match: \$230,000 Total Project: \$661,100

TSTC- Harlingen will install a 100 kW solar photovoltaic (PV) system for the campus. The system will be installed on the Health Sciences Technology Building. As part of the installation, a data monitoring system will be incorporated, which will gather, record, and display system performance. In terms of energy benefits, the PV system is expected to generate 127,542 kWh in the first year of operation. The system will also be utilized for training within the college's proposed Solar Energy Technology program and as part of any continuing education projects that are requested by local and regional industry.

### **The City of Alpine**

ARRA Funds Awarded: \$419,600 Match: \$104,900 Total Project: \$524,500

The City of Alpine will install a 50 kW grid-tied solar photovoltaic (PV) system at the City's wastewater treatment plant, which is located about 2.5 miles northeast of the City. The solar array will generate about 78,105 kWh of electricity per year.

### **The City of Horseshoe Bay**

ARRA Funds Awarded:	Match:	Total Project:
\$311,396.83	\$62,279.37	\$373,676.20

The City of Horseshoe Bay will install a 41.1 kW roof-mounted, solar photovoltaic (PV) system at the City's Slickrock Lift Station. It is estimated that the installation of the PV system will save the City \$4,000 in annual energy savings.

### **University of North Texas - Dallas**

ARRA Funds Awarded: \$260,500 Match: \$276,136 Total Project: \$536,636

The University of North Texas (UNT) will install a 102 kW solar photovoltaic (PV) system at its newly constructed Academic Building 2. The PV system will be visible from the campus roof top and as part of the installation, a data monitoring system will be incorporated, which will gather, record, and display system performance. It is anticipated that an annual energy savings will be \$44,809.

### **Munday Independent School District - Munday**

ARRA Funds Awarded:	Match:	Total Project:
\$249,117.46	\$62,279.37	\$311,396.83

Munday ISD will install a 41.1 kW roof mounted photovoltaic (PV) system on Building 610 of the campus. The system will generate approximately 55.2 kWh of energy per year.

### **City of Henrietta**

ARRA Funds Awarded: \$159,160 Match: \$39,790 Total Project: \$198,950



The city of Henrietta will install a 10 kW grid-tied, roof-mount solar photovoltaic (PV) system at the City haul building. It is estimated that the installation will save the City approximately \$1,500 per year in energy savings.

### **Fort Worth ISD**

ARRA Funds Awarded: \$143,074    Match: \$91,768    Total Project: \$234,842

Fort Worth ISD will install a 101 kW grid-tied, roof mounted solar photovoltaic (PV) system on the Wilkerson Greines Activity Center roof. The Wilderson Greines Activity Center is located in southeast Fort Worth. The selected facility will represent a model for a highly visible location for the innovative distributed renewable solar energy technology implementation.

### **The City of Sunset Valley – Austin area**

ARRA Funds Awarded: \$95,000    Match: \$46,000    Total Project: \$141,000

The City of Sunset Valley will install a 26 kW grid tied photovoltaic (PV) system at the Sunset Valley City Hall. It is estimated that the system will save the City \$5,076 in annual electric usage.

Source: Texas State Comptroller's Office