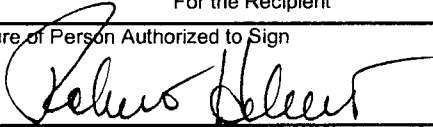





## ASSISTANCE AGREEMENT

1. Award No. DE-EE0000916		2. Modification No.		3. Effective Date 11/13/2009		4. CFDA No. 81.128		
5. Awarded To FORT BEND, COUNTY OF Attn: ROBERT HEBERT COUNTY JUDGE 301 JACKSON ST. RICHMOND TX 774691308				6. Sponsoring Office Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401			7. Period of Performance 11/13/2009 through 11/12/2012	
8. Type of Agreement <input checked="" type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other		9. Authority PL 110-140, EISA 2007 PL 111-5, Recovery Act 2009			10. Purchase Request or Funding Document No. 10EE000248			
11. Remittance Address FORT BEND, COUNTY OF Attn: ROBERT HEBERT COUNTY JUDGE 301 JACKSON ST. RICHMOND TX 774691308				12. Total Amount Govt. Share: \$2,807,600.00 Cost Share : \$0.00 Total : \$2,807,600.00		13. Funds Obligated This action: \$2,807,600.00 Total : \$2,807,600.00		
14. Principal Investigator Marilynn Kindell 281-341-4410		15. Program Manager Mitchell James Duran Phone: 303-275-4772			16. Administrator Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393			
17. Submit Payment Requests To			18. Paying Office			19. Submit Reports To See Attachment #2		
20. Accounting and Appropriation Data EECBG Program								
21. Research Title and/or Description of Project RECOVERY ACT: COUNTY OF FORT BEND, TX ENERGY EFFICIENCY & CONSERVATION BLOCK GRANT								
For the Recipient				For the United States of America				
22. Signature of Person Authorized to Sign 				25. Signature of Grants/Agreements Officer 				
23. Name and Title Robert Hebert, County Judge		24. Date Signed 12/22/09		26. Name of Officer Genevieve M. Wozniak		27. Date Signed 11/13/2009		

**CONTINUATION SHEET**

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DE-EE0000916

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2 3

NAME OF OFFEROR OR CONTRACTOR  
FORT BEND, COUNTY OF

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>DUNS Number: 081497075 In addition to this Assistance Agreement, this award consists of the items listed in the Special Terms and Conditions, Provision 2, Award Agreement Terms and Conditions.</p> <p>In Block 7 of the Assistance Agreement, the Period of Performance reflects the beginning of the project through the end of the current Budget Period, shown as 11/13/2009 through 11/12/2012.</p> <p>Blocks 12 and 13 of this Assistance Agreement indicate the Total Obligated Amount of this project, which is the Recipient's total allocation. The funds available in ASAP to the Recipient through this action is limited to \$361,082.00 (consisting of Personnel \$26,332, Travel \$750, Equipment \$184,000, and Supplies \$150,000) due to the restrictions in Provision Number 15, National Environmental Policy Act (NEPA) Requirements, and Provision Number 19, Subcontract/Subgrant Approvals, in the Special Terms and Conditions. Once these conditions have been met, the remaining funds will be released to the Recipient.</p> <p>DOE Award Administrator: Dewayne Rymer E-mail: dewayne.rymer@go.doe.gov Phone: 303-275-4748</p> <p>DOE Project Officer: Mitchell Duran E-mail: mitchell.duran@go.doe.gov Phone: 303-275-4772</p> <p>Recipient Business Officer: Marilyn Kindell E-mail: Marilyn.Kindell@co.fort-bend.tx.us Phone: 281-341-4410</p> <p>Recipient Principal Investigator: Marilyn Kindell E-mail: Marilyn.Kindell@co.fort-bend.tx.us Phone: 281-341-4410</p> <p>Electronic signature or signatures as used in this document means a method of signing an electronic message that-- Continued ...</p>				

**CONTINUATION SHEET**

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DE-EE0000916

PAGE OF  
3 | 3

NAME OF OFFEROR OR CONTRACTOR  
FORT BEND, COUNTY OF

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	(A) Identifies and authenticates a particular person as the source of the electronic message; (B) Indicates such person's approval of the information contained in the electronic message; and, (C) Submission via FedConnect constitutes electronically signed documents. ASAP: Yes Extent Competed: NOT AVAIL FOR COMP Davis-Bacon Act: YES Delivery Location Code: 03601 Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393  Payment: OR for Golden U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 4517 Oak Ridge TN 37831  Fund: 05796 Appr Year: 2009 Allottee: 31 Report Entity: 200835 Object Class: 41020 Program: 1005115 Project: 2004350 WFO: 0000000 Local Use: 0000000 TAS Agency: 89 TAS Account: 0331				

Applicant Name: County of Fort Bend, TX

Award Number: DE-EE0000916/000

Attachment #3

**Budget Information - Non Construction Programs**

OMB Approval No. 0348-0044

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		Total (g)
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	
1. Solar Power Hot Water Retrofit County Jail	81.128			\$581,800	\$0	\$581,800
2. Solar Powered Security Lighting County Parks / Facilities	81.128			\$281,080	\$0	\$281,080
3. Audits County Facilities Energy Efficiency	81.128			\$402,880	\$0	\$402,880
4. Retrofits County Facilities Energy Efficiency	81.128			\$1,198,060	\$0	\$1,198,060
5.						

**Section B - Budget Categories**

Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1) Solar Power Hot Water Retrofit County Jail	(2) Solar Powered Security Lighting County Parks / Facilities	(3) County Facilities Energy Efficiency Audits	(4) County Facilities Energy Efficiency Retrofit	
a. Personnel	\$1,800	\$1,080	\$2,880	\$18,360	
b. Fringe Benefits		\$0	\$0	\$0	
c. Travel		\$0	\$0	\$0	
d. Equipment	\$0	\$0	\$0	\$150,000	
e. Supplies	\$0	\$0	\$0	\$150,000	
f. Contractual	\$580,000	\$280,000	\$400,000	\$879,700	
g. Construction	\$0	\$0	\$0	\$0	
h. Other	\$0	\$0	\$0	\$0	
i. Total Direct Charges (sum of 6a-6h)	\$581,800	\$281,080	\$402,880	\$1,198,060	
j. Indirect Charges	\$0	\$0	\$0	\$0	
k. Totals (sum of 6i-6j)	\$581,800	\$281,080	\$402,880	\$1,198,060	
7. Program Income	\$0	\$0	\$0	\$0	\$0

Applicant Name: County of Fort Bend, TX

Award Number: DE-EE 0000916/000

**Budget Information - Non Construction Programs**

OMB Approval No. 0348-0044

<b>Section A - Budget Summary</b>						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance (b)	Estimated Unobligated Funds		New or Revised Budget		Total (g)
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	
5 Energy Efficiency and Conservation Program Manager	81.128			\$306,818	\$0	\$306,818
6 Propane Conversion Pilot Project	81.128			\$36,962	\$0	\$36,962
				\$0	\$0	\$0
				\$0	\$0	\$0
5. Totals				\$2,807,600	\$0	\$2,807,600
<b>Section B - Budget Categories</b>						
6. Object Class Categories	Grant Program, Function or Activity					
	(5) Energy Efficiency and Conservation Program Manager	(6) Propane Conversion Pilot Project				
a. Personnel	\$0	\$2,212	\$0	\$0	\$0	\$26,332
b. Fringe Benefits	\$0	\$0	\$0	\$0	\$0	\$0
c. Travel	\$0	\$750	\$0	\$0	\$0	\$750
d. Equipment	\$0	\$34,000	\$0	\$0	\$0	\$184,000
e. Supplies	\$0	\$0	\$0	\$0	\$0	\$150,000
f. Contractual	\$306,818	\$0	\$0	\$0	\$0	\$2,446,518
g. Construction	\$0	\$0	\$0	\$0	\$0	\$0
h. Other	\$0	\$0	\$0	\$0	\$0	\$0
i. Total Direct Charges (sum of 6a-6f)	\$306,818	\$36,962	\$0	\$0	\$0	\$2,807,600
j. Indirect Charges	\$0	\$0	\$0	\$0	\$0	\$0
k. Totals (sum of 6i-6j)	\$306,818	\$36,962	\$0	\$0	\$0	\$2,807,600
7. Program Income	\$0	\$0	\$0	\$0	\$0	\$0

EECBG Activity Worksheet

Grantee: Fort Bend County Date: 06/12/2009

DUNS #: 81497075 Program Contact Email: werleann@co.fort-bend.tx.us

Program Contact First Name: Ann Last Name: Werlein

Project Title: Solar Power Hot Water Retrofit County Jail

Activity: 6. Buildings and Facilities If Other: \_\_\_\_\_

Sector: Public If Other: \_\_\_\_\_

Proposed Number of Jobs Created: 14.00 Proposed Number of Jobs Retained: 4.00

Proposed Energy Saved and/or Renewable Energy Generated: 37% ( as provided by vendor)

Proposed GHG Emissions Reduced (CO2 Equivalents): 527.000

Proposed Funds Leveraged: \$678,979.00

Proposed EECBG Budget: 581,800.00

Projected Costs Within Budget: Administration: \_\_\_\_\_ Revolving Loans: \_\_\_\_\_ Subgrants: \_\_\_\_\_

Project Contact First Name: Marilynn Last Name: Kindell Email: marilynn.kindell@co.fort-bend.tx.us

Metric Activity: Building Retrofits If Other: \_\_\_\_\_

Project Summary: *(limit summary to space provided)*

Renewable Energy Technologies on Government Buildings

Project #1 Solar Power Hot Water Retrofit for County Jail (Energy Efficiency and Renewable Energy Technologies Programs for Buildings)

The recently constructed facility houses 750 inmates, and currently uses 30 gallons of hot per person per day. The solar powered renewable energy technologies program will use Alternative Energy Technologies (AET) absorbers designed to collect and meet the needs of a system from 30,000 to 50,000 gallons of hot water. The system will consist of 300, 40 sq.ft. solar collectors and 5200 gallons solar hot water storage. The collectors are designed to provide 30 years of dependable service, and are projected to realize cost benefits within the first nine years, thus saving the county eight million dollars over thirty years of the systems lifespan.

Budget:

The total projected cost for this project is \$1,260,779 However only a portion of the total cost \$581,800 of this project will be funded by the EECBG Grant. The balance of this renewable energy project will be supported with local Government Capital Improvement Funds. This cost includes a feasibility study of the project.

Schedule:

This will be a contracted turn key project scheduled to be completed within three months with over site by county staff, and will create a minimum of fourteen new jobs.

### EECBG Activity Worksheet

Grantee: Fort Bend County Date: 06/12/2009  
DUNS #: 81497075 Program Contact Email: werleann@co.fort-bend.tx.us  
Program Contact First Name: Ann Last Name: Werlein  
Project Title: Solar Powered Security Lighting County Parks/ Facilities  
Activity: 6. Buildings and Facilities If Other: \_\_\_\_\_  
Sector: Public If Other: \_\_\_\_\_  
Proposed Number of Jobs Created: 3.00 Proposed Number of Jobs Retained: 1.00  
Proposed Energy Saved and/or Renewable Energy Generated: 9,859,461  
Proposed GHG Emissions Reduced (CO2 Equivalents): 5,102.000  
Proposed Funds Leveraged: \$4,600.00  
Proposed EECBG Budget: 281,080.00  
Projected Costs Within Budget: Administration: \_\_\_\_\_ Revolving Loans: \_\_\_\_\_ Subgrants: \_\_\_\_\_  
Project Contact First Name: Marilynn Last Name: Kindell Email: marilynn.kindell@co.fort-bend.tx.us  
Metric Activity: Industrial Process Efficiency If Other: \_\_\_\_\_

Project Summary: *(limit summary to space provided)*

Eligible Activity: Traffic Signals and Street Lighting

Project # 2- Solar Powered Outdoor Security Lights Installed on Buildings at Parks and County Facilities

Grant Funds will be used to install and retrofit twenty eight lights with energy efficient solar panels and battery backup. Solar powered lights will be installed on County buildings. Using solar panels will save energy and the cost for laying electrical lines especially in the unincorporated areas of the county and wooded park areas. The county expects to receive an immediate return on investment by increasing the safety of our citizens and the elimination of cost associated with electrical power needed to support the exterior outdoor lighting. The retrofit installation of the Exterior Lighting upgrades will be executed as a turn key project by an outside contractor. The County had planned to install 400 watt pack lighting, however, with the availability of the EECBG the County will install solar powered lighting on County buildings.

Budget: The estimated cost to complete this project with replacement batteries is \$285,680.

Schedule: It is anticipated that this portion of the project will be completed within one year after inception.

EECBG Activity Worksheet

Grantee: Fort Bend County Date: 06/12/2009  
DUNS #: 81497075 Program Contact Email: werleann@co.fort-bend.tx.us  
Program Contact First Name: Ann Last Name: Werlein  
Project Title: County Facilities Energy Efficiency Audits  
Activity: 6. Buildings and Facilities If Other: \_\_\_\_\_  
Sector: Public If Other: \_\_\_\_\_  
Proposed Number of Jobs Created: 4.00 Proposed Number of Jobs Retained: 1.00  
Proposed Energy Saved and/or Renewable Energy Generated: 20,368,776  
Proposed GHG Emissions Reduced (CO2 Equivalents): 10,539.000  
Proposed Funds Leveraged: \$600.00  
Proposed EECBG Budget: 402,880.00  
Projected Costs Within Budget: Administration: \_\_\_\_\_ Revolving Loans: \_\_\_\_\_ Subgrants: \_\_\_\_\_  
Project Contact First Name: Marilynn Last Name: Kindell Email: marilyn.kindell@co.fort-bend.tx.us  
Metric Activity: Other If Other: Energy Administrator

Project Summary: *(limit summary to space provided)*

Eligible Activity: Residential and Commercial Building Energy Audits

Project #3: County Building Energy Efficiency Audits

This project includes the identification of building energy consumption, and deficiencies through the analysis of pass energy bills, building mechanical equipment, lighting, doors and the overall structure of the building. The buildings structure will be audited through the use of infrared camera technology to identify conditioned air leakage and insufficient insulation.

Budget: The total estimated cost for auditing all of the Counties 1.6 million sq.ft. of air conditioned office space @ .25 per sq.ft. has been calculated to be \$ 402,880.00.

ECEBG Activity Worksheet

Grantee: Fort Bend County Date: 06/12/2009  
DUNS #: 81497075 Program Contact Email: werleann@co.fort-bend.tx.us  
Program Contact First Name: Ann Last Name: Werlein  
Project Title: County Facilities Energy Efficiency Retrofit  
Activity: 6. Buildings and Facilities If Other: \_\_\_\_\_  
Sector: Public If Other: \_\_\_\_\_  
Proposed Number of Jobs Created: 13.00 Proposed Number of Jobs Retained: 5.00  
Proposed Energy Saved and/or Renewable Energy Generated: 51,353,858  
Proposed GHG Emissions Reduced (CO2 Equivalents): 26,572.000  
Proposed Funds Leveraged: \$600.00  
Proposed ECEBG Budget: 1,198,060.00  
Projected Costs Within Budget: Administration: \_\_\_\_\_ Revolving Loans: \_\_\_\_\_ Subgrants: \_\_\_\_\_  
Project Contact First Name: Marilynn Last Name: Kindell Email: marilynn.kindell@co.fort-bend.tx.us  
Metric Activity: Building Energy Audits If Other: \_\_\_\_\_

Project Summary: *(limit summary to space provided)*

Eligible Activity: Energy Efficiency and Conservation and Renewable Energy Technologies Programs for Buildings and Facilities

Project # 4: County Buildings Retrofit

Upon completion of the energy audits of each county building a course of action will be devised to implement building retrofits that positively impact the efficiency of each building. This includes the replacement of lighting fixtures, doors, out dated mechanical equipment, and the re-insulation of the buildings structure. Retrofitting strategies may also include the replacement of tar and gravel roof systems which increases the heat loads on the buildings HVAC systems.

Budget: The amount budgeted for retrofitting the counties buildings will be based on what is identified with the audit, age, and total number of buildings to be updated. The total estimated amount for this project is budgeted at \$1,198,660.00

Schedule: It is anticipated that the retrofitting projects will be completed within the 36 month time frame of this grant funding period.

EECBG Activity Worksheet

Grantee: Fort Bend County Date: 06/12/2009  
DUNS #: 81497075 Program Contact Email: werleann@co.fort-bend.tx.us  
Program Contact First Name: Ann Last Name: Werlein  
Project Title: Energy Efficiency and Conservation Program Manager  
Activity:  Buildings and Facilities #2 per request If Other: \_\_\_\_\_  
Sector: All Sectors If Other: \_\_\_\_\_  
Proposed Number of Jobs Created: 3.00 Proposed Number of Jobs Retained: 2.00  
Proposed Energy Saved and/or Renewable Energy Generated: \_\_\_\_\_  
Proposed GHG Emissions Reduced (CO2 Equivalents): \_\_\_\_\_  
Proposed Funds Leveraged: \$0.00  
Proposed EECBG Budget: 306,818.00  
Projected Costs Within Budget: Administration: \_\_\_\_\_ Revolving Loans: \_\_\_\_\_ Subgrants: \_\_\_\_\_  
Project Contact First Name: Marilynn Last Name: Kindell Email: marilynn.kindell@co.fort-bend.tx.us  
Metric Activity: Technical Assistance If Other: Energy Administrator

Project Summary: *(limit summary to space provided)*

Eligible Activity: Technical Consultant Services

Project #5: Employ Energy Efficiency and Renewable Energy Technologies Programs Manager

In order to ensure that the identified projects and strategies are carried out according to DOE regulations and in a timely manner an Energy Efficiency and Renewable Energy Technologies Administrator/ Manager will be hired and initially fund for a two year period to provide oversight, identify partners plan the implementation of each strategy to ensure the goals and objectives are achieved, as well as monitor and maintain the capital and operational energy conservation measures of this grant. The energy manager's position will expand to address other energy related initiatives as they develop in Fort Bend County, and provide a solid managerial foundation for additional energy use reductions moving forward.

Budget: \$306,818 has been budgeted for one contractual service for a period of three years full time.

EECBG Activity Worksheet

Grantee: Fort Bend County Date: 06/12/2009  
DUNS #: 81497075 Program Contact Email: werleann@co.fort-bend.tx.us  
Program Contact First Name: Ann Last Name: Werline  
Project Title: Propane Conversion Pilot Project  
Activity: 7. Transportation If Other: \_\_\_\_\_  
Sector: Transportation If Other: \_\_\_\_\_  
Proposed Number of Jobs Created: \_\_\_\_\_ Proposed Number of Jobs Retained: \_\_\_\_\_  
Proposed Energy Saved and/or Renewable Energy Generated: \_\_\_\_\_  
Proposed GHG Emissions Reduced (CO2 Equivalents): \_\_\_\_\_  
Proposed Funds Leveraged: \$1,600.00  
Proposed EECBG Budget: 36,962.00  
Projected Costs Within Budget: Administration: \_\_\_\_\_ Revolving Loans: \_\_\_\_\_ Subgrants: \_\_\_\_\_  
Project Contact First Name: Marilynn Last Name: Kindell Email: marilynn.kindell@co.fort-bend.tx.us  
Metric Activity: Transportation If Other: \_\_\_\_\_  
Project Summary: *(limit summary to space provided)*

Eligible Activity: Development and Implementation of Transportation Programs

Project #6 Propane Conversion Pilot Project Precinct 1 Constable

This project will support the counties current efforts to reduce emissions through the use of propane fuel conversion of a select number of vehicles. Propane is considered a clean fuel by the Clean Air Act of 1990 and National Policy Act of 1992 and 2005, and is the third most widely available alternative fuel in the United States. The conversion of county vehicles with this fuel will reduce fuel cost with no adverse affects on vehicle operation. The county expects to realize a 20 to 25% savings in fleet fuel cost, save taxpayer dollars, and reduce vehicle maintenance costs. The proposed energy savings, and emissions reduction for this project was determined using calculations based on the activity #5 on the calculator worksheet.

Budget: The cost to retrofit approximately three existing Precinct 1 Constable vehicles is \$5,000.00 each unit for a total cost of 15,000.00 and a skid mounted fueling system, dispenser, and filter fuel line that will be installed by the manufacturer as a turnkey system for \$ 19,000. The total cost for the propane conversion is \$ 38,562.

*If you are proposing more than one activity, save this file as many times as needed with successive page numbers. For example: "OH-CITY-Columbus-Project Activity page 1.pdf," "OH-CITY-Columbus-Project Activity page 2.pdf," and continua as needed.*