

Solid Waste Grant Application

General Information

Application Information

Application ID

100125

Entity

Fort Bend County

Department/Division

Engineering

Eligible Entities

Entity Category

County

Primary Project Contact Information

First Name

Ike

Address

301 Jackson St Richmond, TX
77469

Last Name

Akinwande

County

Fort Bend

Title

Assistant County Engineer

Phone Number

281-633-7506

Email Address

Ike.Akinwande@fortbendcountytx.gov

Primary Financial Contact Information

First Name

Rick

Address

301 Jackson St Richmond, TX
77469

Last Name

Staigle

County

Fort Bend

Title

First Assistant County Engineer

Phone Number

281-633-7509

Email Address

rick.staigle@fortbendcountytx.gov

Grant/Project Information

Project Title

Fort Bend Recycling Equipment and Educational Program

Brief Project Description

The Fort Bend Recycling Center aims to reduce the carbon footprint. We would like to acquire a bulb eater (along with other equipment) that will eliminate purchasing boxes and bags to contain the CFL bulb. This will simultaneously allow us to capture the mercury in the CFL bulbs. This equipment will also help to maintain a clean and environmentally friendly workspace. Additionally, we will partner with City of Sugarland to accomplish a recycling education program.

Grant Category

Source Reduction and Recycling

Population Served by this Project

Fort Bend County

Personnel, Fringe, & Indirect Budget

Personnel Budget Narrative

Not Applicable

Fringe Benefits Budget Narrative

Not Applicable

Travel Budget

Travel Budget Narrative

Not Applicable

Supplies Budget

Supplies Budget Narrative

Not Applicable

Equipment Budget

Equipment Budget Line Item #1

Description

Bulb eater

Purpose

To capture mercury from CFL's and reduce FBC carbon footprint from purchasing supplies.

Make/Model

333-100-120

Quantity

1

Equipment Amount Requested

\$5,371.00

Equipment Budget Line Item #2

Description

Industrial Misting Fan

Purpose

The recycling center is not air conditioned. This will provide a cooler working environment to reduce heat related illness.

Make/Model

PB10--A-06-B

Quantity

1

Equipment Amount Requested

\$6,584.00

Equipment Budget Line Item #3

Description

Roll of Truck

Purpose

To transport recyclable material to vendors.

Make/Model

Kenworth T880

Quantity

1

Equipment Amount Requested

\$224,950.00

Equipment Budget Narrative

Fort Bend is going to improve our recycling program by obtaining additional equipment. All the above equipment will be used to improve our recycling ability, maintain a safe environment for workers and patrons of our facility, and reduce FBC carbon footprint by reducing the materials needed to contain, move and transport recyclable materials. If all of the items requested cannot be approved for the grant, we would be agreeable to the approval of selected items, based on feedback from the application review.

Construction Budget

Construction Budget Narrative

Not Applicable

Contractual Budget

Contractual Budget Narrative

Not Applicable

Other Budget

Other Budget Narrative

Not Applicable

Total Funding Request

Budget Summary

Below is a summary of the budget items you have added for this application.

Category	Total Amount Requested
Personnel Budget (Includes Indirect & Fringe Benefits)	\$0

Travel Budget	\$0
Supplies Budget	\$0
Equipment Budget	\$236905
Construction Budget	\$0
Contractual Budget	\$0
Other Budget	\$0
Total Amount Requested	\$236905

Requested Funding

Total Grant Amount Requested	Applicant's Match/In-Kind	Total Project Budget
\$236,905.00	\$0.00	\$11,955.00

Project Merits and Needs

Up to 45 Points Total

Need for Project (20 Points)

Recycling is much easier if you live in certain size cities. You make sure to sort out your waste, place all of your recyclables into one bin on a certain day, you take it to the curb, it gets picked up and you typically don't think anything else about it. And then you pat yourself on the back..."Job well done!". In a rural community, such as many cities within Fort Bend, recycling is more challenging. Due to distance from markets, volume and geographic restraints, most private haulers are unable to provide curbside recycling services to rural communities. Fort Bend implemented its recycling drop-off several years ago and uses in-house staff for pickups throughout the county.

We are wanting to do more. The addition of a bulb eater will be used to capture mercury from CFL's and reduce the Fort Bend County carbon footprint from purchasing supplies. The industrial misting fan will provide a cooler working environment to minimize the chances of heat related illness among employees; the recycling center is a garage type facility and is not air-conditioned.

Beyond the ability to provide a service to the community, this program would also help increase waste diversion and the amount of material going to the landfill. Trash costs continue to go up and landfill space continues to decrease so Fort Bend would like to take the initiative to increase our capacity via innovative equipment to help the community and the environment.

Objective (5 Points)

The Fort Bend County Recycle Center provides a regional center for general and HHW recycling for Fort Bend County residents. We are committed to protecting the environment by promoting recycling, reducing/reusing in order to ensure a safe and healthy community for current and future generations by diverting waste from landfills.

Project Feasibility (10 Points)

Fort Bend County took steps to begin the currently functioning recycling program. We have been cost-conscious and strategic in expanding our capability to recycle with great efficiency and capacity. Fort Bend has been able to obtain equipment throughout the program and maintain a staff in alignment with the amount of service provided to county residents. However, the requested equipment through the grant from HGAC will take this program a step further.

In addition, we are partnering with the City of Sugarland to:

1. Have interactive recycling education performances at our local elementary schools to educate students on reducing, reusing and recycling.
2. Provide recycling education activity totes (including handouts, books, and games) to students following the performances.
3. Produce and distribute recycling educational videos

We have been providing service to residents of Fort Bend and we seek to improve our capability to serve and increase our visibility to the public.

Outreach and Education (10 Points)

Fort Bend plans to promote and educate the community on the recycling program in several ways. Fort Bend plans to utilize social media (Facebook) and its website to educate residents.

In addition, we are partnering with the City of Sugarland to have interactive recycling education performances at our local elementary schools, provide recycling education activity totes (including handouts, books, and games) to students following the performances, and produce and distribute recycling educational videos.

Local Resources and Commitments

Up to 25 Points Total

Ability to Sustain Project (15 Points)

Fort Bend County has a long history of recycling. We have managed to keep the program going through prudent fiscal responsibility and an amazing staff that believes in the vision of recycling. Our partnership with City of Sugarland for the educational component helps us in an area where we do not have the current resources. The equipment that we plan to purchase will have benefits for our staff and customers. Our customers will see an innovative way to recycle bulbs, the bulb eater will reduce the amount of packaging that is normally required to get the bulbs recycled by a vendor, and the misting fan will create an environment that allows the staff to spend more time working in safe temperatures. And additionally, all equipment will be properly maintained and stored in accordance with the manufacturer's standards. They will be used within the manufacturer's recommendations to ensure the long life of the equipment.

Matching Funds or In-Kind Services (5 Points)

While Fort Bend is not contributing any matching funds, we do plan to utilize in house staff to attend educational events and promote our vision through social media outlets.

Partnerships (5 Points)

We are partnering with the City of Sugarland to provide educational outreach. We plan to:

1. Have interactive recycling education performances at our local elementary schools to educate students on reducing, reusing and recycling.
2. Provide recycling education activity totes (including handouts, books, and games) to students following the performances.
3. Produce and distribute recycling educational videos.

Project Evaluation

Up to 30 Points Total

All fields are required.

Economic Viability (15 Points)

With the use of the bulb eater, in particular, we would be able to reduce the cost of materials by reducing the number of boxes used for packaging and number of times materials are shipped to a vendor. This will save taxpayer dollars and reduce the number of materials sent to landfills. Our partnership with City of Sugarland and selections of new equipment have been evaluated to be economically viable and highly impactful on accomplishing our mission and vision.

Anticipated Effectiveness (10 Points)

Our hope is that the educational aspect could lead to more community involvement in the recycling program and increased recycling rates. Fort Bend is anticipating that the educational program and new equipment will have an immediate impact both financially and environmentally, and could lead to more innovation and an increase in recycling from our customers.

Measures of Success (5 Points)

Fort Bend plans to measure the success of items requested for grant support by employee satisfaction surveys, feedback from participants of our partnered educational program, and evaluation of increased recycling rates/decreased overall financial cost related to bulb recycling.

Additional Program Information

Staff

How many employees does the permanent facility have?

5

Do you have a plan in place for adequately training any new employees?

Yes

Facility Information

Are you requesting funds for a new facility or for modification of an existing facility?

N/A

What is the location/address of the facility?

1200 Blume Rd, Rosenberg, TX 77471

What are the hours of operation?

8:00 am to 4:00 pm Monday through Saturday

Who can use the facility?

Fort Bend Residents

Equipment

If you are requesting funds to purchase equipment, what will the equipment be used for?

Equipment will be used to maintain a clean and safe working environment for employees and visiting patrons.

How often will the equipment be used?

Daily

Do you have adequate space to store the equipment?

Yes

Will the equipment be used for solid waste purposes 100% of the time?

Yes

Service Method

Will the program incorporate:

Curbside Recycling

No

Drop-off Facility Recycling

Yes

In-House Recycling

No

Mobile/Trailer Unit Recycling

No

Will the facility be manned or unmanned?

Manned

Is there a cost to users?

Yes

What is the estimated frequency of users?

Hourly and Daily visits by citizens

What signage will you be using to either direct users to the facility or to guide them in proper usage of the facility?

Signage does currently exist to direct users to the facility and to guide them in proper usage of the facility.

Educational Component

What educational items will you be purchasing?

None directly - we will partner with City of Sugarland and their educational component.

What is the specific purpose and message of the educational items?

To increase awareness of the services that we offer.

Describe your distribution plan of the items.

Social media (facebook) and flyers.

School-Based Programs

Who is responsible for the program?

n/a

What is the source of the materials? Will individuals be bringing in recyclables from home or will the recyclables be generated solely in the school?

n/a

If you currently have a recycling program, please attach a PDF document showing volumes or weights collected for the past two years.

Regional SWMP

Evaluation of Consistency with the Regional Solid Waste Management Plan Goal #1

Goal #1: Does this project promote services and technical assistance support of local and regional solid waste management planning?

Yes

Objectives Met

Objective 1F: Maintain a regional clearinghouse on solid waste management practices of H-GAC local governments.

Objective 1G: Serve as a central point of contact for solid waste management outreach, education, and training programs.

Special Event Recycling

No

Public Space Recycling

No

Materials (Commodities) Collected

What materials are to be collected?

All cardboard and paper as well as all plastics 1-7.

Describe the planned end markets by commodity.

Federal Waste International

What are the total expected revenues for each of the materials annually?

Over the past 2 years we diverted over 368,000 pounds of plastics and OCC and received \$10,700.00.

What is the expected cost to process the materials annually?

\$\$87,000.00

What are the expected landfill costs saved?

\$\$200,000.00

If you currently have a recycling program, please attach a PDF document showing volumes or weights collected for the past two years.

Advertising/Promotion

Please describe all advertising/promotion you have planned for your program.

We have an active website and will soon have an active facebook page.

Partnerships

Please indicate all partnerships you will be utilizing for your program.

We will partner with City of Sugarland and their educational component.

Evaluation of Consistency with the Regional Solid Waste Management Plan Goal #2

Goal #2: Does this project promote the planning for adequate municipal solid waste disposal, handling, and management facilities?

Yes

Objectives Met

Objective 2B: Encourage the development of facilities that reduce, reuse, or recycle waste materials.

Objective 2C: Encourage appropriate distribution of facilities to minimize transportation costs.

Evaluation of Consistency with the Regional Solid Waste Management Plan Goal #3

Goal #3: Does this project promote the options for reduction and recycling of waste disposal in municipal solid waste management facilities?

Yes

Objectives Met

Objective 3C: Target waste reduction activities to certain components of the waste stream that may pose a special risk or problem.

Private Industry

Private Industry #1

Private Service Providers Contacted

Local Elementary Schools

First Name

Taylor

Last Name

Danesi

Title

Environmental Manager

Date Notified

10/07/19

Method of Contact

In Person

Discussion Summary

We discussed interactive recycling education performance; hosting 10 shows at our local elementary schools to educate students on reducing, reusing and recycling.

Supporting Documents

Private Industry #1

Document Title

2019-20 Grant Equipment

2019-20 Grant Equipment.pdf (<http://www.h-gac.com/solid-waste-management/grant-applications/uploads/10172019112411AM.pdf>)

Application Agreement & Signature

Signature

The Applicant certifies that it has reviewed the certifications, assurances, and deliverables included in this application, that all certifications are true and correct, that assurances have been reviewed and understood, and that all required deliverables are included with this application submittal.

Name

Ike Akinwande

Title

Assistant County Engineer