



## **GEFA GRANT APPLICATION SITE-SPECIFIC ASSESSMENT REPORT FOR BIOGAS UTILIZATION FOR LANDFILLS AND WASTEWATER TREATMENT PLANTS**

**Grant Purpose and Overview:** The Georgia Environmental Finance Authority (“GEFA”) is offering this grant to provide technical assistance to local governments that own landfills or waste water treatment plants to realize their landfill gas and biogas (hereafter biogas) potential and to understand the technical solutions available to help them achieve the highest and best use of their biogas resources.

GEFA will provide grant funding for a site-specific assessment report for biogas utilization (“Site Assessment Report”). For each local government that receives this grant, GEFA will reimburse 75% of the cost of the Site Assessment Report up to a maximum grant amount of \$25,000. The Site Assessment Report will include feasibility assessment for the biogas offtakes, engineering costs estimates for proposed technology and process implementation, preparation of preliminary offtake project budget and proforma analysis, and description of process for negotiating offtake agreements.

GEFA has sufficient funding available for up to eight grants. The funding source for this program does not require competitive bidding. Reimbursement will only be provided to the local government after the final report has been completed and delivered to the local government and GEFA.

- 1) Applications shall be submitted to GEFA on the form provided in Attachment A along with required supporting information. All applications and letter of support should be submitted to [andrea@gefa.ga.gov](mailto:andrea@gefa.ga.gov).
- 2) The Site Assessment Report must meet the basic content requirements provided in Attachment B or the applicant shall otherwise identify and explain any proposed deviations in its application.

**Key Dates and Deadlines:** GEFA will administer the grant program in accordance with the following deadlines:

- Application Opens: December 1, 2016. The applications will be reviewed and processed in the order they are received. Complete applications meeting the minimum requirements will be approved and the applicant notified by email within 10 business days.
- Application Closes: January 31, 2017. If all grant funds are expended, GEFA may opt to take wait-list applications. Should approved applicants not engage an engineer / consultant for the site assessment report within 60 days of notification of approval, GEFA may reallocate the grant funds to an agency on the wait-list.
- Engineer / Contractor Engaged: The approved applicant should notify GEFA that it has engaged an engineer for the Site Assessment Report and provide a copy of a fully executed contract with its engineer covering the Site Assessment Report **within 60 days from notice of approval**. It will be



important to engage an engineer for the Site Assessment Report by this deadline to keep the grant funding.

- Completion of Biogas Assessment: As the final step the engineer / consultant should deliver the final report to local government and GEFA within 120 days from contract execution for services. Failure to complete the Site-Specific Assessment Report by this deadline may result in forfeiture of the grant funding.

**Grant Eligibility:** To be eligible for this grant, an applicant must meet the following requirements:

- Must be a local government or an instrumentality of the state, including any municipal corporation, county or local water or sewer or sanitary district, and any state or local authority, board, or political subdivision created by the General Assembly or pursuant to the Constitution and laws of the state.
- Application is submitted complete, compliant, signed, and dated.
- Landfill operators must certify there is a minimum of 15 years of landfill gas production.
- Waste water treatment plant operators must certify they process a minimum of five million gallons per day.
- Applicant includes a letter of support from senior staff and/or elected leaders for Site Assessment Report with the application.



**Attachment A**  
**Biogas Site Assessment Report**  
**Grant Application**

**Name of Landfill / Wastewater Treatment Plant:**

**Applicant Information:** The applicant must be a local government or an instrumentality of the state, including any municipal corporation, county or local water or sewer or sanitary district, and any state or local authority, board, or political subdivision created by the General Assembly or pursuant to the Constitution and laws of the state.

Applicant Name			
Contact Person		Title	
Street Address OR Post Office box 1			
Street Address 2			
City and Zip Code + 4	(City)	(Zip Code+4)	County
Telephone Number		Fax Number	
E-Mail Address	(Primary Email)		
	(Secondary Email)		
Federal EIN		DUNS No.	
Congressional District			
Project Place of Performance (address where the work will occur)			
Congressional District (Of Project)			
Waste-Water Treatment plants: Please certify that you process at least 5MGD at the plant named above.	Yes/No/NA		
Landfills: Please certify that you have a minimum of 15 years of landfill gas production remaining at the landfill named above.	Yes/No/NA		



Authorized Official	
I certify that I am authorized to sign this application on behalf of our governing body.	(Enter YES)
Title	
Date	



## **Attachment B**

### **TEMPLATE FOR THE BIOGAS RECOVERY SITE ASSESSMENT REPORT**

The following template provides the content requirements for a site assessment study to be partially or wholly funded under the Georgia Environmental Finance Authority's (GEFA) Landfill Gas/Digester Gas (collectively "Biogas") Technical Assistance Program. All site assessment reports must contain the following information outlined below to receive reimbursement. It is acceptable that site assessment reports contain additional information to the required information outlined below.

Purpose: Develop a preliminary biogas recovery model for the Site and prepare this Site Assessment Report that provides:

- A full description of the site, the address and proximity to any power lines or natural gas pipelines.
- An estimate of the quantity of recoverable biogas from the Site on an annual basis for the next *Value* years (*Years*). Include the assumptions and formulas used to derive quantity and projected Value.
- An evaluation of the quality of the biogas (i.e., concentrations of methane, carbon dioxide, nitrogen, oxygen, hydrogen sulfide, siloxanes, volatile organic compounds, etc.).
- An assessment of the following potential end-uses for the biogas to include any required treatment to remove moisture, particulates and other impurities;
  - The supply of compressed and dehydrated biogas to one or more end-users at an energy value of approximately 500 Btu per cubic foot (cf);
  - Using LFG or biogas collected from the Site to generate electric power;
  - Processing the biogas to natural gas quality and injecting it into a natural gas pipeline; and
  - The production of alternative fuels (CNG, LNG, etc.) and any other byproducts.
- For those end-uses that appear feasible, the Report would:
  - Based on the expected biogas recovery rate provide a recommended facility production capacity and configuration.
  - For the direct-use scenario, the study also would consider the energy requirements of the end-user(s);
  - Estimates for pipeline or power line interconnect;
  - The market value of the proposed energy product.
  - A preliminary estimate of the capital and annual O&M budgets for each recommended LFG or biogas to energy facility.
  - An estimate of the spatial requirements for each recommended facility.
  - A preliminary schedule for development of each project.
  - Identify potential governmental grants and credits, low-interest loans, and other incentive programs for which each project may qualify.



- Pro forma financial statements for the recommended project configurations.
- An environmental benefits statement, the direct and indirect reduction of air pollutants and GHGs.
- Final conclusions and recommendations.

The Site Assessment Report would be delivered to the site owner and GEFA upon completion. Please send completed site assessment reports to [andrea@gefa.ga.gov](mailto:andrea@gefa.ga.gov).