

Energy Audit of Public Institutions, Facilities, and Street Lighting Project

Key Stakeholder Survey

1 Objective of the Project

The objective of this consultancy is to conduct an evaluation of various energy consuming operations and procedures in public buildings and street lighting in Bartica. Moreover, the audits will determine and assess any wasteful as well as energy conserving practices, operations and procedures. The energy audit findings and the assessment of potential energy efficiency improvements will be used in the development of specific energy saving guidelines and applications for each type of government building.

2 Scope of Work

The primary job scope is to perform energy audits on all public buildings throughout Bartica, in order to identify their current status of energy performance, advice on potential cost-efficient measures to improve it.

The consultants will be required to:

- a. Identify all public buildings suitable for energy audits: Through a series of meetings, site visits and stakeholder engagements, identify all suitable buildings which can be audited to assist in the development of the energy management guidelines. The choice of buildings will follow a set of criteria which has to be developed and agreed with the project team.
- b. Review the existing operational characteristics of the building: Through a series of meetings, site visits and stakeholder engagements, identify and establish the operating characteristics of the facility, energy system specifications, operating and maintenance procedures, preliminary areas of investigation, unusual operating constraints, anticipated future expansions or changes, training needs and other concerns related to facility operations.
- c. Review existing documentation and management practice: All available facility documentation is reviewed with site representatives (where possible). This documentation should include all available facility operation and maintenance procedures and utility bills for the previous year.

3 Survey of Key Stakeholders

The following is a listing of intended stakeholders to be surveyed during the site visits depending of their availability. Each stakeholder will be informed of the objective and scope of work of the project prior to the questions.

3.1 Stakeholders in Georgetown

A. Office of Climate Change

1. Please give an overview of the Office of Climate Change involvement in the Bartica project.
2. What are your expectations of the socioeconomic impact review of the Project?
3. Why was Bartica chosen as the Green Hub?
4. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
5. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
6. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
7. What are some of the social issues affecting Bartica?
8. What are the main economic activities in Bartica?
9. Do you have in mind the options available for financing the Green Hub
10. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
11. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
12. What are some of the partnerships that the country will pursue to implement the Green Hub?
13. What impact does the current energy costs have in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs. Do you have estimates?
14. Do you have any documentation or studies that can assist in writing a comprehensive story?

B. Department of Environment

1. What role if any does your Department have in the Green Hub project in Bartica?
2. Follow up Question: Is the Green Hub a part of the Green State Development Strategy (GSDS)?
3. Why then was it not administered from the Department of the Environment which is responsible for the development and implementation of the GSDS?

4. How will it be integrated into the GSDS?
5. Why was Bartica chosen as the Green Hub?
6. What are your expectations of the socioeconomic impact review of the Energy Audit of Public Institutions, Facilities, and Street Lighting?
7. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
8. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
9. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
10. What are some of the social issues affecting Bartica? Environmental issues and constraints?
11. What are the main economic activities in Bartica?
12. Do you have in mind the options available for financing the Green Hub?
13. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
14. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
15. What are some of the partnerships that the country will pursue to implement the Green Hub?
16. What impact does the current energy costs have in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs. Do you have estimates?
17. Do you have any documentation or studies that can assist in writing a comprehensive story?

C. Ministry of Public Infrastructure

1. What role if any does your ministry have in the Green Hub project in Bartica?
2. Please give a description of Bartica public infrastructure
3. What are the expected social and economic impacts of the current state of public infrastructure in Bartica
4. What are the public infrastructure plans for Bartica? How will you incorporate energy efficiency and renewable energy projects?
5. What are the expected social and economic impacts of the planned public infrastructure?
6. What options are you using to finance the energy efficiency and renewable energy projects in Bartica?
7. Have you formed any partnerships? What are your plans for partnerships in the implementation of the Green Hub public infrastructure projects in Bartica?
8. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
9. Do you have any documentation that can assist in writing a comprehensive story?

D. Guyana Revenue Authority

1. What are the tax policies for the Green Hub project in Bartica?
2. What are the tax concessions to imports for Green Energy projects? Are there any future plans?
3. Would there be tax concessions for businesses using green energy?
4. Do you have any documentation that can assist in writing a comprehensive story

E. Guyana Oil Company

1. Please give an overview of the Office involvement in the Bartica Project.
2. What are your expectations of the socioeconomic impact review of the Energy Audit of Public Institutions, Facilities, and Street Lighting?
3. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
4. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
5. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
6. What are some of the social issues affecting Bartica?
7. What are the main economic activities in Bartica?
8. Do you have in mind the options available for financing the Green Hub
9. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
10. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
11. What impact does the current energy costs have in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs. Do you have estimates?
12. Do you have any documentation or studies that can assist in writing a comprehensive story?
13. What is the real cost to your company of producing energy in Guyana, specifically in Bartica?

F. Guyana Energy Authority

1. Please give an overview of your organisation involvement in the Bartica Project
2. What are your expectations of the socioeconomic impact review of the Energy Audit of Public Institutions, Facilities, and Street Lighting?
3. What are the key economic and social challenges of implementing the Green Strategy in Bartica?

4. Please share with us any:
 - a. Analysis of peak power and energy consumption of public institutions, facilities (Guyana Water Inc. pump station) and street lights in Bartica.
 - b. Analysis (cost and quantity) of fuel Consumption in energy generation
 - c. Analysis of the renewable energy options for Bartica Municipal Government to reduce energy bill
 - d. Cost Analysis of transitioning to renewable energy options
 - e. Energy efficiency plan for public buildings in Bartica and associated cost
 - f. Emission estimates in current situation versus carbon neutral situation based on proposed renewable energy and efficiency options
5. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
6. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
7. What are some of the social issues affecting Bartica?
8. What are the main economic activities in Bartica?
9. Do you have in mind the options available for financing the Green Hub
10. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
11. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
12. What are some of the partnerships that the country will pursue to implement the Green Hub?
13. Do you have any documentation or studies that can assist in writing a comprehensive story?

3.2 Stakeholders in Bartica

A. Regional Democratic Council

1. Please give an overview of the RDC involvement in the Bartica project
2. What are your expectations of the socioeconomic impact review of the Energy Audit of Public Institutions, Facilities, and Street Lighting?
3. Why was Bartica chosen as the Green Hub?
4. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
5. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
6. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
7. What are some of the social issues affecting Bartica?
8. What are the main economic activities in Bartica?
9. Please share with us any:

- a. Analysis of peak power and energy consumption of public institutions, facilities (Guyana Water Inc. pump station) and street lights in Bartica.
 - b. Analysis (cost and quantity) of fuel Consumption in energy generation
 - c. Analysis of the renewable energy options for Bartica Municipal Government to reduce energy bill
 - d. Cost Analysis of transitioning to renewable energy options
 - e. Energy efficiency plan for public buildings in Bartica and associated cost
 - f. Emission estimates in current situation versus carbon neutral situation based on proposed renewable energy and efficiency options
10. Do you have in mind the options available for financing the Green Hub
11. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
12. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
13. What are some of the partnerships that the country (the regional partnerships?) will pursue to implement the Green Hub
14. What impact does the current energy costs have in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs. Do you have estimates?
15. Do you have any documentation or studies that can assist in writing a comprehensive story?

B. Bartica Municipality

1. Please give an overview of the Office involvement in the Bartica
2. What are your expectations of the socioeconomic impact review of the Energy Audit of Public Institutions, Facilities, and Street Lighting?
3. Why was Bartica chosen as the Green Hub?
4. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
5. Please share with us any:
 - a. Analysis of peak power and energy consumption of public institutions, facilities (Guyana Water Inc. pump station) and street lights in Bartica.
 - b. Analysis (cost and quantity) of fuel Consumption in energy generation
 - c. Analysis of the renewable energy options for Bartica Municipal Government to reduce energy bill
 - d. Cost Analysis of transitioning to renewable energy options
 - e. Energy efficiency plan for public buildings in Bartica and associated cost
 - f. Emission estimates in current situation versus carbon neutral situation based on proposed renewable energy and efficiency options
6. What do you envisage are the economic and social costs and benefits of implementing the project? Do you have estimates?

7. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
8. What are some of the social issues affecting Bartica?
9. What are the main economic activities in Bartica?
10. Do you have in mind the options available for financing the Green Hub
11. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
12. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
13. What are some of the partnerships that the country will pursue to implement the Green Hub?
14. What impact does the current energy costs in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs? Do you have estimates?
15. Do you have any documentation or studies that can assist in writing a comprehensive story?

C. Private Sector (Business Development Group, Bartica Boat Association, Baganara – airfield operators, GGDMA, Women’s Miners Association)

1. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
2. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
3. What do you think would be the impact of using renewable energy on the local environment, investment climate, health, employment, and other benefits?
4. What are some of the social issues affecting Bartica?
5. What are the main economic activities in Bartica?
6. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
7. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
8. What impact does the current energy costs in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs? Do you have estimates?
9. Do you have any documentation or studies that can assist in writing a comprehensive story?

D. Public Sector (Bartica Regional Hospital, Bartica Education Department, Bartica Secondary School, Guyana Revenue Authority, GGMC, GLSC, GWI)

1. Please give an overview of the Office involvement in the Bartica

2. What are your expectations of the socioeconomic impact review of the Energy Audit of Public Institutions, Facilities, and Street Lighting?
3. Why was Bartica chosen as the Green Hub?
4. What are the key economic and social challenges of implementing the Green Strategy in Bartica?
5. What do you envisage the economic and social costs and benefits of implementing the project? Do you have estimates?
6. What do you think would be the impact on the local environment, investment climate, health, employment, and other benefits?
7. What are some of the social issues affecting Bartica?
8. What are the main economic activities in Bartica?
9. Do you have in mind the options available for financing the Green Hub
10. What is your view on Bartica pursuing energy efficiency and renewable energy projects?
11. What are some of the public awareness campaigns and educational aides being pursued for the Green Hub project?
12. What are some of the partnerships that the country will pursue to implement the Green Hub?
13. What impact does the current energy costs in Bartica on the level of economic activity and the benefit of renewable energy to lower energy costs? Do you have estimates?
14. Do you have any documentation or studies that can assist in writing a comprehensive story?

3.3 Capacity Development and Constraints [For All Stakeholders]

- In your view what capacity needs to be built in Bartica to enable stakeholders to contribute to the development of Bartica as a Green Hub?
- Do you think the legal and policy framework is in play to support the designation of Bartica as a Green Hub? If no what would you suggest and how it should be implemented and financed.
- How do you see yourself benefiting from the ongoing energy audit? Will you implement the results of the audit? What resources will you require to implement the audit recommendations?