

MINISTRY OF PUBLIC INFRASTRUCTURE (MOPI)
REQUEST FOR RENEWABLE ENERGY PROPOSALS
GUYANA POWER & LIGHT INC. - BARTICA POWER SYSTEMS

Project Title: Supply of Renewable Energy for Bartica, Region 7, Guyana

REFERENCE NO.: MOPI-RFP-01-2016

As part of its effort to develop a 'green' economy, the Government of the Cooperative Republic of Guyana is actively pursuing new projects to utilize renewable energy technologies that will help to provide sustainable, clean, reliable and affordable electrical energy to consumers in Bartica, Region 7. In this effort, the MOPI is soliciting competitive proposals from suitable firms, as an Independent Power Producer (IPP), to design and develop a generation system utilizing an appropriate renewable energy technology, or combination of technologies, under a Build Own Operate Transfer (BOOT) structure to supply electricity to the Bartica grid under a Power Purchase Agreement (PPA).

The Guyana Power & Light Inc. (GPL) is the electricity service provider in Bartica. The electricity supply in Bartica is currently produced exclusively by diesel-powered thermal generators. The peak demand in Bartica is **1.8 MW** as of December 2015, with an energy consumption of approximately **11,760 MWh** annually.

Proposals for the generation system shall utilize one or more of the following eligible renewable resources:

1. Solar energy
2. Wind energy
3. Hydropower energy
4. Bio-mass energy
5. Waste-to-energy
6. Tidal energy

Proposals shall be developed in the context of the following:

- I. Design and develop a generation system utilizing an appropriate renewable energy technology, or combination of technologies, under a negotiated PPA and BOOT structure for 10 to 25 years for the supply of electricity to the GPL grid in Bartica, Region 7.
- II. The facility shall produce at least **2,140 MWh** of energy per annum, with up to **1.5 MW** in capacity.

- III. The chosen technology or technologies shall be operated in a reliable and predictable manner.
- IV. For intermittent energy sources (such as wind and solar), the proposal shall include about 15 minutes of energy storage for the purpose of system stability. Energy storage capacity shall be calculated using Bartica's peak load.
- V. For the purpose of preparation of the proposal and evaluation, assume that suitable land will be made available by the Government of Guyana at no cost to the developer.
- VI. The proposing party shall be responsible for applying and obtaining all necessary permits and licenses at its own cost to construct, operate and sell electricity from the proposed facility.
- VII. The Government of Guyana shall be the owner of any renewable energy and/or carbon credits generated by the facility.

EVALUATION CRITERIA

Proposals will be evaluated using the following criteria, including but not limited to:

- How well the proposed project is defined and the likelihood of it reaching the minimum energy output target.
- The energy price compared to other proposals and GPL's avoided cost for its Bartica operations.
- How quickly the project can supply electricity to the Bartica Grid.
- The guaranteed firm capacity and availability of the system.
- The proposer's experience in power generation using the proposed renewable energy technology or technologies.

Proposals shall include:

- a) Company profile and background, organisation and staffing, if applicable.
- b) Details of experience or similar assignments undertaken in the previous five years, including their locations.
- c) Expected Investment and associated Costs (US\$)
- d) Installed Capacity (MW)
- e) Proposed timeline of commencement and completion of project.
- f) A Table with the following information:

	Operation Periods		
	Up to Year 10	Year 10 to Year 15	Year 15 to Year 20
Installed Capacity (MW)			
Selling Price of Energy (US\$/kWh)			
Guaranteed Availability (%)			

Following the evaluation of the Proposals, a shortlist of qualified firms will be formally engaged and invited to submit full comprehensive proposals.

Clarifications and any further information can be obtained by sending an email request to gea@gea.gov.gy.

Electronic Proposals will not be accepted. Late Proposals will be rejected. Proposals will be opened in the presence of the representatives who choose to attend in person at the address and at the times stated below.

Proposals must be clearly marked “**Request for Renewable Energy Proposals: Bartica**” on the top left corner of a sealed envelope.

Proposals must be in written form, signed and deposited in the Tender Box on or before 09:00h on Monday February 15, 2016 (for the Solar Energy option) and Thursday June 30, 2016 (for Wind energy, Hydropower energy, Bio-mass energy, Waste-to-energy and Tidal energy) to:

Guyana Energy Agency
 Attn: Dr. Mahender Sharma
 295 Quamina Street
 South Cummingsburg
 Georgetown, Guyana.