Dear Sir or Madam:

This document defines the scope of work and technical specifications required for Engineering, Procurement, Construction, Initial Operation and Maintenance of a Clean Energy Laboratory System at The University of The Bahamas. The Project Owner will be the Government of The Bahamas (GoBH) with the Project Execution Unit (PEU) within the Ministry of Finance (MoF) providing project development and project management support as the Contracting Agency. The Clean Energy Laboratory systems will be owned by the MoF.

Background

The Project Executing Unit (PEU) is seeking entities for the design, procurement, construction, and commissioning of a Clean Energy Laboratory project at the University of The Bahamas (UB) in Nassau, New Providence, Bahamas.

Bidders shall submit a proposal for full turnkey solution including full EPC (Engineering, procurement, and construction) of the Clean Energy Laboratory that will primarily facilitate research and development activities around solar PV on-grid or microgrids operations, maintenance and; which shall include but not be limited to:

- Solar PV design for solar on-grid and off-grid systems;
- Battery energy storage system (BESS);
- Power grid systems analysis and modeling;
- Potential distributed energy resources control; and
- Supervisory control and data acquisition (SCADA).
- Solar on-grid and Solar off-grid prototype project installation
- Capacity to easily support future grid expansion for distributed energy generation
- Installation of generation bi-directional EV charging stations to support vehicle to grid technology
- Installation of a computer system to support collection and storage of real-time metrological, wave and tidal data from a network of weather stations an buoys. This data will be used asynchronously or synchronously to...
predict and/or model wind, solar PV and microgrid energy systems performance through The Bahamas.

- AC collection equipment to combine the output of each inverter and connect to the relevant utility Points of Interconnection.

- Data acquisition systems
This laboratory will combine various technologies to primarily support testing, training, and capacity building. Ultimately trainees could further support development, deployment, operations, and maintenance of other solar PV alternatives and clean energy technologies in The Bahamas. MoF will own, operate, and maintain the laboratory. The UB may seek to contract follow on support for operations and maintenance and seek additional partnerships to support development of this project.

The RFB is for 1 lot. The delivery/construction period is 12 months.

Engineering, Procurement, Construction, Initial Operation and Maintenance of a 50kW Clean Energy Laboratory System at The University of The Bahamas located in Nassau, N.P., The Bahamas. Please see Technical Specifications for more details.

This procurement process will be conducted in accordance with the Policies for Procurement of Goods and Works financed by the Inter-American Development Bank GN-2349-15 January 2020.

All requests for clarification of this RFB are to be submitted as a message within this request for bids via the eProcurement website.

General queries can be sent to:

Terrance Donald
Procurement Specialist,
Project Execution Unit,
Ministry of Finance
(242) 604-1032 (Office)
(242) 829-2927 (Cell)
reconrenewableenergy@bahamas.gov.bs

Interested eligible bidders should carefully review the qualifications instructions stated in Clause 5 of Section B: Instructions To Bidders and Appendix F of this National Competitive Bidding document. A Bidder who has an existing contractual agreement with Ministry of Finance Reconstruction with Resilience in the Energy Sector in The Bahamas (the "RRESB") for a solar energy project (the "Existing Works") under either the Loan #4978/OC-BH, or the EU-CIF GRT/ER-18625/OC-BH shall not be eligible to bid for another project issued by the RRESB until such time as 70% of the Existing Works have been completed as per the agreed milestone payment schedule by bid opening date.