

## **REQUEST FOR EXPRESSIONS OF INTEREST** **CONSULTING SERVICES**

Selection # as assigned by e-Tool: HO-T1406-P001

Selection Method: Full Competitive Process Selection

Country: Honduras

Sector: Energy

Funding – TC #: ATN/KP-19433-HO

Project #: HO-T1406

TC name: Smart grid assessment for Guanaja Island as part of “Guanaja Green Island Program”

Description of Services: Support the Government of Honduras (GoH) in planning the Guanaja Green Island Program in order to: (i) evaluate the existing distribution grid infrastructure; (ii) conduct energy demand-side management assessments, including the evaluation of terrestrial and maritime electric mobility options; and (iii) evaluate the applicability of smart grid technologies considering the aforementioned grid and demand-side assessments as inputs, as well as the expansion and investment plans for renewable energy generation.

Link to TC document: <https://www.iadb.org/es/project/HO-T1406>

The Inter-American Development Bank (IDB) is executing the above mentioned operation. For this operation, the IDB intends to contract consulting services described in this Request for Expressions of Interest. Expressions of interest must be delivered using the IDB Portal for Bank Executed Operations ( <http://beo-procurement.iadb.org/home>) by: **March 16, 2023**, 5:00 P.M. (Washington D.C. Time).

To access the IDB Portal, the firms must generate a registration account, including **all** the data requested by the Portal. In the event that any of the information requested is not included, the firm will not be able to participate in this or any other Bank-executed selection process for operational work. If the firm has been previously registered, please validate that you have **all** the firm’s information updated and complete before submitting an expression of interest.

The consulting services (“the Services”) include (i) *Assessment of power infrastructure including power generation and distribution infrastructure.* (ii) *Assessment of the potential of demand-side management options in Guanaja.* (iii) *Assessment on Information and Communication Technology (ICT) alternatives that will propose the requirements for the next generation network.* (iv) *Development of a smart grid investment plan to implement a smart grid program in Guanaja, including investments in grid infrastructure for electricity and data. The anticipated start date of the consultancy is in the second quarter of 2023 and the total expected duration is 12 months.*

*The consulting firm must carry out all the necessary activities to achieve the objectives, including, among others, the following:*

*Activity 1. Baseline and future scenario assessment of the power infrastructure. The consulting firm consists of a power infrastructure evaluation, including power generation and distribution infrastructure. This study will assess the power generation expansion plans to be developed with the support of international financial organizations and local stakeholders. It will also assess the distribution infrastructure expansion plan. The assessment will also evaluate operation safety measures to protect existing power infrastructure.*

*Activity 2. Techno-economic assessment of the potential of demand-side management on the island. This assessment will consider scenarios including different energy efficiency programs for various energy uses*

*including, electricity utilization, heating and cooling applications, water pumping, transportation and electromobility options (land and maritime solutions), and their influence on power generation.*

*Activity 3. Information and Communication Technology (ICT) assessment. Based on the results of Activity 1 and Activity 2, the consulting firm will propose the requirements for the next generation network that will transport electricity and collect information from suppliers and consumers in real time, evaluating the capacity of different generation power sources, networks, and communication infrastructure and the benefits of their integration to the grid.*

*Activity 4. Smart grid investment plan. Considering the assessments from the previous activities the consulting firm will develop a smart grids investment plan for Guanaja. This plan should include investments in grid infrastructure for electricity and data, and should consider the following alternatives: Advanced Metering Infrastructure (AMI), Energy Management Systems (EMS) for buildings, Electric Vehicles (EV) charging infrastructure, data management, and Distributed Energy Resources (DERs) management. It will also evaluate the local capacities and the investment required to conduct the future O&M work of smart grids in the island. The results of the investment plan will be used for the preparation of future IDB loan operations.*

Eligible consulting firms will be selected in accordance with the procedures set out in the Inter-American Development Bank: [Policy for the Selection and Contracting of Consulting firms for Bank-executed Operational Work](#) - GN-2765-4. All eligible consulting firms, as defined in the Policy may express an interest. If the Consulting Firm is presented in a Consortium, it will designate one of them as a representative, and the latter will be responsible for the communications, the registration in the portal and for submitting the corresponding documents.

The IDB now invites eligible consulting firms to indicate their interest in providing the services described above in the [draft summary](#) of the intended Terms of Reference for the assignment. Interested consulting firms must provide information establishing that they are qualified to perform the Services (brochures, description of similar assignments, experience in similar conditions, availability of appropriate skills among staff, etc.). Eligible consulting firms may associate in a form of a Joint Venture or a sub-consultancy agreement to enhance their qualifications. Such association or Joint Venture shall appoint one of the firms as the representative.

Interested eligible consulting firms may obtain further information during office hours, 09:00 AM to 05:00 PM, (Washington D.C. Time) by sending an email to: [carlosja@iadb.org](mailto:carlosja@iadb.org)

Inter-American Development Bank

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