

REQUEST FOR EXPRESSION OF INTEREST
Consulting Services for Grid Integration Study

Publication date: 16th Jun 2022

Submission date: 06th July 2022

Country: Guinea-Bissau

Description of procurement:

The Government of Guinea-Bissau has received funding from the World Bank under the Guinea-Bissau **Solar Energy Access and Deployment Project (SESAP)** and intends to use part of this amount to make payments under a **Contract** for carrying out integration studies related to the development of photovoltaic solar power plants relating to infrastructure for four (04) photovoltaic solar power plants with storage battery, connected to the electricity grid in Bissau, Gabu, Cacheu and Bafata.

Scope of Work:

The Consultant will be required to work on two parts:

- To conduct four grid integration studies of variable renewable energy integration into grid in a comprehensive document for each study.
- To develop technical tender documents and incorporate all relevant technical requirements for the tender documents, specifications, and tender documents necessary for the grid integration of solar photovoltaic power plants in the network exist.

Following the Identification and/or confirmation of suitable sites for the projects and associated easements, to be done as part of the feasibility study, the consultant shall prepare four studies on integration into the interconnected network of Guinea- Bissau photovoltaic solar power plants whose main characteristics are given below:

Sites	AC Power/ DC Capacity
Bisses	30 MWac / 39 MWp
Gabu	15 MWac / 19,5 MWp
Bafata	15 MWac / 19.5 MWp
Cacheu	6 MWac / 8 MWp
Total	66 MWac

Qualification Criteria:

The core team should include people with the following skills:

1. One (01) Project Manager with experience of at least fifteen (15) years in the development and implementation of policies aimed at the deployment of Renewable Energies mainly in solar photovoltaic, and the integration of intermittent renewable production in transmission and distribution networks.
2. One (01) Electrical Engineer expert in the integration of intermittent renewable energies in the network, with at least 10 years of experience in studies of integration of solar and

wind projects and with a mastery of modelling tools for electrical studies (PSSE, DIGSilent, etc.) and network planning tools.

3. One (01) economist engineer expert in economic studies relating to the development of electricity production and transport infrastructure, with at least 10 years of experience in planning and studying the development and expansion of systems electrical. The expert must have a mastery of the tools and models of planning at the lowest cost and of analysis and financial evaluation of investment opportunities.

The services required should be provided in French.

For more information, please email to info@tenderingprojects.es