

REQUEST FOR EXPRESSION OF INTEREST

Feasibility Studies for Battery Energy Storage System (BESS) in Mauritania

Publication date: 19th Jun 2022

Submission date: 27th July 2022

Country: Mauritania

Duration: 12 weeks

Description of procurement:

The main objective of the assignment is to define the services to be carried out by the Consultant as part of the pre-feasibility study for the substations identified during the study conducted by a consultancy firm whose report will be made available.

Scope of Work:

The specific objectives of the study are:

- A comparative analysis of the various types of batteries.
- Analyses on the impact of batteries on the power system (efficiency, voltage plan, dynamic stability, etc.).
- A single-wire scheme for the Battery Energy Storage System (BESS) and the connecting equipment (switchgear and connections).
- The technical specifications of the BESS and the connecting equipment.
- Equipment layout plan for the BESS and connecting equipment.
- Specifications and requirements for integration with the electricity network supervision systems, particularly dispatching (SCADA: EMS, DMS).
- Static VAR compensator (SVC) opportunities to provide fast-reacting reactive power
- Training needs for the management of a Batter

Qualification Criteria:

The Consultant shall be a Firm or a Group with (at least 10 years') proven experience in power transmission and distribution, battery energy storage system engineering, and economic analysis.

The consultant's team shall include at least the following key experts:

- Three power grid experts:
 - a planning/design/engineering engineer in Power Transmission and Distribution - Project Manager.
 - an engineer specialized in the analysis of the functioning of electrical networks.
 - a battery energy storage system engineer.
- Two economic analysis and tender document experts:
 - an economic and financial analysis specialist.
 - a specialist in the drafting of tender documents and procurement of the Development Bank type (if necessary).

- Each expert proposed by the consultant shall:
- have an advanced training level (very high-level engineer or technician);
 - have at least 10 years' professional experience in his or her area of specialization.
 - have completed at least five (05) similar projects in nature or volume.

At least one of the proposed experts shall be a woman

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