

REQUEST FOR EXPRESSION OF INTEREST

Feasibility Studies of Energy Storage Systems in Mozambique

Publication date: 13th Dec 2022

Submission date: 27th Jan 2022

Country: Mozambique

Duration: 14 Months

Description of procurement:

The Government of Mozambique has received financing from the African Development Bank towards the cost of the Mozambique Renewable Energy Integration Program and intends to apply part of the agreed amount for this grant to payments under the contract for consulting services for the feasibility studies for battery energy storage systems BESS and assessment for a pump storage hydropower plant. The consultancy services to be provided under this tender, include site identification and full feasibility studies for BESS in 10 sites and assessment for a pumped storage hydropower plant entailing, as a minimum, the following (1) technical viability (2) financial viability (3) environmental impact assessment plant infrastructure and interconnection lines, (4) adaptation and climate resilience and 5) socio-economic aspects of the proposed technologies in order to guide EDM and other local stakeholders in its decision making process. The overall aim of introducing Energy Storage System (ESS) is the need to overcome several challenges related to large-scale grid integration of renewables. First, batteries are technically better suited to frequency regulation than the traditional spinning reserve from power plant. Second, batteries provide a cost-effective alternative to network expansion for reducing curtailment of wind and solar power generation. Third, as renewable power generation often does not coincide with electricity demand, surplus power should be either curtailed or exported. Surplus power can instead be stored in batteries for consumption later when renewable power generation in low and electricity demand increases. Forth, storage systems can make the grid more climate resilient and aid recovery after climate related disasters such as the Cyclone Idai

For more information, please contact:

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