

Request for Expressions of Interest

Renewable Energy Project - Electricity Modelling & Design Consultancy

Project Overview: St. Helena Island, a British Overseas Territory in the South Atlantic, is committed to a sustainable future by integrating renewable energy sources. The island has set a target to expand from the current 20% electricity generation from renewable energy to 80% by 2027/28.

In pursuit of this vision, Connect Saint Helena Ltd invites Expressions of Interest from experienced professionals in the renewable energy sector to prepare final energy modelling and designs for a reliable and cost-effective energy hybrid solution for St. Helena. Building on earlier work undertaken by Connect Saint Helena Ltd, the solution will consider the expansion of the existing solar farm and wind farm, as well as other renewable energy technologies, and the introduction of a Battery Energy Storage System.



Consultancy

The consultancy is structured in two essential phases:

Phase 1: Design and Modelling - The successful consultant will be tasked with developing the final design and comprehensive modelling for the proposed renewable energy hybrid solution. This phase will lay the foundation for a sustainable energy future on St. Helena.

Phase 2: Procurement Support - Subject to the adoption of recommendations from Phase 1 and funding approval, Phase 2 will involve support to the procurement process to implement the agreed design.

Key Responsibilities:

Phase 1: Initial Design and Modelling

- Conduct a thorough assessment of St. Helena's energy needs and available resources
- Develop a comprehensive final design for a renewable energy hybrid solution
- Utilise advanced modelling techniques to optimise the system for cost effectiveness and reliability
- Deliver a detailed report outlining the proposed solution and its potential impact.

Phase 2: Procurement Support

- Assist in the formulation of procurement documentation
- Assist with the evaluation of vendor proposals to ensure alignment with the recommended design
- Collaborate with stakeholders to secure funding approval
- Provide ongoing support during the procurement process to guarantee successful implementation.

Qualifications and Experience:

Prospective consultants should possess the following:

- Relevant qualifications and experience in the renewable energy field
- Proven experience in designing and modelling renewable energy solutions
- In-depth knowledge of the latest advancements in renewable energy technologies
- Demonstrated success in providing support during project procurement phases
- Strong communication skills and the ability to collaborate effectively with stakeholders.

Submission details: The submitted expressions of interest should include the company name, a comprehensive resume, and any relevant references.

Expressions of interest should be e-mailed to tender.returns@connect.co.sh by no later than noon on **Monday, 22 January 2024**.

Contact Information: For further information please email tender.returns@connect.co.sh or telephone +290 22255.

St. Helena looks forward to partnering with a skilled and innovative Renewable Energy Modelling and Design Consultant to propel the Island towards a sustainable and eco-friendly energy future.