

Solar energy jobs south tarawa

The Global Green Growth Institute (GGGI) is a treaty-based international, inter-governmental organization dedicated to supporting and promoting strong, inclusive and sustainable economic growth in developing countries and emerging economies. To learn more please visit about GGGIweb page.

The Public Utility Board (PUB) of Kiribati is the electricity, water supplier and sewerage disposal for Kiribati and services the main center of South Tarawa. PUB is a corporate body, established under the Public Utilities Ordinance, Cap 83, on 1st July 1977 and which was further amended in 2000 to allow for more autonomy in its operations. In 2013 PUB became a State-Owned Enterprise with an established Board of Directors as part of its governance structure.

The assignment aims to conduct overall technical and financial assessment of PUBs existing Solar PV grid connect systems, for the 6 sites identified. A pre-feasibility report will be compiled as result of the consultancy, which will enable a better understanding of the status of PUB's Solar PV grid connect system and the addition of the complementary BESS.

The consultancy will work closely with PUB in collecting the relevant data and information based on the 6 sites selected for this project and assess the pre-feasibility nature in accordance with the deliverables required. The consultant may refer to national documents for contextual purposes, however the design and technical recommendations must be established through analysis and assessments guided by this assignment.

Key reference documents which may support the consultants' assessment may be in reference to the following documents:

The documents delivered through this assignment will serve as reference documents for all stakeholders involved in the implementation of NDC activities in the energy sector. They will also be used for establishing contacts with potential support providers to leverage climate finance and support for NDC implementation.

To develop the scope for a renewable energy and energy storage project in the future, a Renewable Energy Consultant is needed to undertake a pre-feasibility study. Specifically the consultant will collect data to ensure understanding of the existing systems in place and additional carrying capacity for the proposed Battery Energy Storage Systems; propose optimal system design options, including: a) PV+BESS+ facility for BESS systems for the 6 sites or b) BESS connected with facility to 6 sites; assess the required space; environmental and social impacts; and cost estimates.

Task 1: Project initiation and data collection

The consultant will start an inception phase in consultation with GGGI, PUB and MISE. The scope and



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objectives of the assignment will be discussed, challenges and issues shared to provide context for the assessments.

The consultant is required to prepare a desktop review which includes an analysis of policy and regulatory frameworks related to renewable energy generation and consumption use, and storage capacity in the Kiribati context to identify any regulatory barriers to the success of the project and suggest practical solutions

The consultant will prepare a detailed workplan, questionnaires to be used, and planned workplan which will be used in the consultations conducted in Kiribati. The consultant is required to visit all 6 sites identified under this project. A consultant will undertake a desktop study, guided by PUB, including a review of data related to grid performance, load patterns, Load Profile Analysis: Peak Load and Load Growth Projections, to provide analyses for daily, seasonal, and annual load profiles and growth projections over 5, 10, and 20 years. To ensure the system is sized accurately from the start, voltage fluctuations and frequency variations are referencing previous studies commissioned by the PUB in support of this work.

Deliverable 1 – Inception report, Barrier analysis, Site Survey report and workplan

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