Solomon Islands Electricity Authority trading as SOLOMON POWER

REQUEST FOR EXPRESSIONS OF INTEREST - EOI

Location: **Honiara Network**

Project Title: **System Loss Reduction Study for Honiara Network**

---

1. Background

The Solomon Islands Electricity Authority (SIEA) trading as Solomon Power (SP) is a vertically integrated state owned enterprise that owns, maintains and operates the national electricity grid in the Solomon Islands.

The largest electricity network in the Solomon Islands (both in terms of the geographical coverage and electricity sales) is in Honiara, with a maximum demand of approximately 19 MW is recorded to date and is projected to grow to 24 MW within the next five years.

The main generation plant for Honiara is located at Lungga, about 10 km from Honiara City. The Honiara power system consists of:

- Honiara Power stations with a total installed capacity exceeds 30 MW
- Six 33kV feeders interconnecting the power stations and substations
- 33/11kV substations are at Lungga, Honiara, Ranadi, East Kola, Honiara East and White River.
- Eighteen 11kV distribution feeders

Currently, Solomon Power faces critical operational challenges; high dependency on diesel fuel, and elevated operational costs. As of 2023 to 2025, system losses are estimated to be approximately 16% to 20 % comprised of technical losses and non-technical or commercial losses. These losses are likely attributable to a combination of factors, including:

- Outdated distribution infrastructure,
- Inaccuracies in metering systems,
- Illegal or unauthorised connections, and
- Industrial and commercial customers operating private self-generation systems,

Reducing these losses and maintaining major customers are strategic priority to enhance financial sustainability and service effectiveness and efficiency. In practice it is difficult to determine the balance between the technical and nontechnical losses without precise measurement, but what is clear is that SP is losing a substantial portion of electricity that could otherwise be sold.

2. Objective for this assignment

The primary objective of this study is to:

- Identify and quantify technical and commercial losses across the generation, distribution, billing system and customer metering systems
- Recommend cost-effective technical, operational, and commercial interventions to reduce losses and improve the level and quality of service
- Establish Loss prevention strategic solutions to address the system Losses challenges – short & long terms
- Provide cost estimates (based on system reduction loss study) for the works to be carried out to improve the network losses;

3. Duration

The estimated level of effort is for a four months commencing upon date of signing the contract. Consultant will have to travel to site for assessment and discussion with SP relevant stake holders. The works/support will be provided remotely and on site as agreed between SP and the consultant during the implementation.

4. Competence and Qualification

The SP invites an eligible Consultant to indicate its interest in providing the required services. Interested individuals or Consultancy Firms with qualified Consultants should provide information, demonstrating that they have the required qualifications and relevant experience to perform the services. The consultant's team must be familiar with international best practices in System Loss Study and Consultant should possess the following qualification and experiences; Professional engineer with extensive (10 years plus) experience in leading the planning and operations of power utilities, including Electricity Loss Reduction & Theft Management, Power generation & system audit losses and Revenue protection/Loss prevention & power system operations & analysis.

5. Selection

Contractor may associate with other firms to enhance their qualifications, but should indicate clearly whether the association is in the form of a joint venture and/or a sub- contractor. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.

A Contractor will be selected in accordance with the Quality and Cost-Based Selection (QCBS) method set out in the Solomon Power Tendering and Procurement policies and Manual.

The detailed Terms of Reference (TOR) for the assignment is attached to this EOI.

6. Application and Submission

Interested eligible firm or consultant can obtain further information at the address below during office hours 8 am to 4:30 pm on business days, Monday to Friday.

Expressions of interest must be delivered in a written form by e-mail to Joshua.Suiramo@solomonpower.com.sb and CW.Procurement@solomonpower.com.sb or through (Tender Link Portable) by 2:00 pm on 1st December 2025, Solomon Islands time.

SIEA Head Office
Attention: Delilah Homelo, Chief Executive Officer
P.O. Box 6, Ranadi, Honiara, Solomon Islands
Telephone: +677 42480
Mobile: +677 7131914
E-mail: <Delilah.Homelo@solomonpower.com.sb