



## United Nations Procurement Division

**REQUEST FOR INFORMATION (RFI)**

This notice is placed by UNPD. The accuracy, reliability and completeness of the contents of furnished information is the responsibility of United Nations Procurement Division. You are therefore requested to direct all queries regarding this RFI to United Nations Procurement Division using the fax number or e-mail address provided below.

**Title of the RFI:**

Provision of Renewable Energy to UNMISS site in Malakal, South Sudan

**Date of this RFI:** 29 June 2022**Closing Date for Receipt of RFI:** 11 August 2022**RFI Number:** RFIUNPD19954**Beneficiary Country/Territory:** South Sudan**Commodity/Service category:** Energy**Address RFI response by fax or e-mail to the Attention of:** Joni Kaerpijoki**Fax Number:****E-mail Address:** joni.kaerpijoki@un.org**UNSPSC Code:** 72151203, 81101516, 26130000, 95121800, 72121506, 72151500, 83101800**DESCRIPTION OF REQUIREMENTS**

## 1. BACKGROUND

UNMISS wishes to gradually transition its power generation from diesel generators to renewable energy resources, in order to reduce its carbon footprint, reduce its reliance on diesel fuel and meet the Secretary General's target to transition the UN secretariat to 80% renewable energy by 2030.

To achieve this ambitious target, UNMISS wishes to explore options to outsource the energy supply of its main sites, to an energy service provider who can provide UNMISS with energy coming from renewable sources.

As a first priority UNMISS wishes to find potential energy service providers, who can establish, operate and maintain a renewable energy plant within the fence of the UNMISS Malakal site and sell power to UNMISS at an all-inclusive rate, with a guarantee of origin from renewable energy sources of a minimum of 85%. The potential vendor must possess, or obtain, the right to perform required services for a projected period of five (5) years with a possible extension of an additional five (5) years.

UNMISS also wishes to explore opportunities for this renewable energy project to allow for the capacity



building of the local workforce, with a focus on youth and women, and support knowledge transfer on renewable energy technologies and their operation to local communities and the host state, in order to support national efforts to increase energy access through sustainable energy sources.

In order to support the long-term sustainability of this renewable energy infrastructure past mission liquidation (expected to occur well beyond the initial five (5) year contractual period), UNMISS wishes to explore modalities for the Vendor to gradually connect the plant to local off-takers and sell energy to them, after having obtained necessary licenses. It is expected that by the time UNMISS departs from Malakal, demand for energy will have increased locally and the renewable energy infrastructure initially put in place and intended for UNMISS, could then potentially serve the energy needs of local communities.

## 2. UNMISS MALAKAL SITE

The UNMISS Malakal site is located in the upper Nile State of South Sudan at the following coordinates: 9.5698746,31.6735701. The site is located approximately 4 km away from the Malakal town, which has a population of approximately 130,000 people.

The UNMISS Malakal site is currently hosting both UN civilians and contingents and is structured into eight independent diesel generator mini-grids, each one servicing a different area of the site. Below is a breakdown of the existing diesel generator capacities in each mini-grid, their peak load and an approximately daily load profile for the entire site.

### UN Civilian Power House

#### UN Power House

- 6x500 KVA synchronised  
3x250 KVA Backup of office area
- Peak 1200 kW

### Contingent and Rations Power Houses

#### Rwanda Battalion

- 500 KVA diesel generator (plus backup)
- Peak 140 kW

#### Indian HMEC

- 250 KVA diesel generator (plus backup)
- Peak 250-kW

#### Indian Battalion

- 500 kVA diesel generator (plus backup)
- Peak 200 kW

#### Rwanda FPU

- 350 KVA diesel generator (plus backup)
- Peak 200-kW

#### Rations Warehouse (ESKO)

- 500 kVA diesel generator (plus backup)
- Peak 180 kW

#### Rations Warehouse (ESKO)

- 500 kVA diesel generator (plus backup)
- Peak 150 kW



Indian Level II Hospital

- 400 KVA (plus backup)
- Peak 150-kW

Considering the overall Contingents and the UN equipment, UNMISS Malakal Camp is expected to have a daily energy consumption 30 to 40 MWh, and a an approximate annual consumption of 11 to 15 GWh. The daily load profile of the camp is provided below.

Load Profile - combined site load

Hour Power (kW)

Malakal UN + TCC Load Profile

Hour Power (kWh)

1:00	800
2:00	800
3:00	800
4:00	800
5:00	800
6:00	925
7:00	925
8:00	1150
9:00	1150
10:00	1500
11:00	1500
12:00	2000
13:00	2000
14:00	2000
15:00	2000
16:00	1500
17:00	1500
18:00	1150
19:00	1150
20:00	925
21:00	925
22:00	800
23:00	800
0:00	800

The site includes sufficient land area to accommodate a renewable energy plant (based on a Solar PV with energy storage system) able to cover the full load of UNMISS.



## SPECIFIC REQUIREMENTS / INFORMATION (IF ANY)

### 3. QUALIFICATIONS

UNMISS is looking for a competent and qualified company or formal consortia of companies to establish, operate and maintain a renewable energy plant which would be located within the fence of the UNMISS Malakal site, in an area designated by UNMISS, and provide renewable energy to UNMISS for a minimum period of five (5) years in line with UN General Conditions of Contract, including the following breakdown of works and services:

1. Install, operate and maintain a renewable energy power plant within the fence of the Malakal Site, with the appropriate back up capacity, guaranteeing continuous energy supply, with a guarantee of origin from renewable energy sources of minimum 85%, to UNMISS.
2. Conduct a complete upgrade of the internal distribution system of the UNMISS Malakal site including:
  - 2.1 Survey, design, supply, transport, install, commission a low voltage (230/400) three phase distribution system from the vendor's established renewable energy power plant to the distribution board of UNMISS' main power house in Malakal (UN Power house) including the provision of an automatic transfer switch.
  - 2.2 Survey, design, supply, transport, install, commission a three phase distribution system from UNMISS's main power house to the distribution boards of the six contingent and rations power houses including the provision of an automatic transfer switch.
  - 2.3 Decommission and dispose of existing distribution system material in an environmentally sound manner.
  - 2.4 Supply, transport and install bi-directional energy meters on each line, for billing purposes, accessible by UNMISS at any time to monitor and control consumption and good delivery of electricity.
3. Provide a financing mechanism, allowing UNMISS to incur no upfront cost for the project and pay the vendor through an all-inclusive fee (USD/kWh) including Renewable Energy Credits from the renewable energy generation (if applicable).
4. Obtain all relevant permits and licences to operate and sell electricity to UNMISS in South Sudan (the UN/UNMISS will not assist in obtaining permits or such).

### 4. INFORMATION REQUESTED

Vendors/Companies interested in this published RFI should submit the following documentation on or before 28 July 2022.

- 4.1 Ability to perform all or part of the services specified in Section 3 above.
- 4.2 Renewable share of power supply proposed by the vendor.
- 4.3 Vendor's available project financing schemes, including the following information:
  - 4.3.1 Vendor's ability to charge UNMISS an all-inclusive energy/leasing fee (USD/kWh) covering all services specified in Section 3 during the duration of the contract.
  - 4.3.2 Any escalation in the all-inclusive energy fee required by the vendor during the contractual period.
  - 4.3.3 If an all-inclusive fee cannot be provided, an indication of the works included in Section 3 of which cost would need to be covered upfront by UNMISS.
- 4.4 Grid standards and certifications and all interconnection equipment applicable international standards.



4.5 Tentative timeline based on previous project experience for execution of works and services as specified in Section 3.

4.6 A summary of your organization profile, structure and previous experience, particularly in fragile states including South Sudan, with Hybrid Power Plants projects where the applicant has been either or all of the following: Energy Retailer, Independent Power Producer (IPP), O&M contractor, EPC contractor.

4.7 Vendor's experience in decentralised renewable energy mini-grid projects in fragile state countries where the vendor was responsible for all or some of the following stages of the project: engagement with local and national authorities, project permitting and licensing, community engagement, energy demand assessment and development of feasibility studies.

4.7 Capacity building programmes run by the vendor in South Sudan and/or other fragile state countries and integration of local workforce (especially youth workforce and women) in the execution of the vendor's Hybrid Power Plants projects in those countries.

4.8 Vendor's ability and willingness to explore ways, through dialogue with the local and national authorities, to gradually connect the plant to local off-takers in the Malakal area to provide energy to them.

4.7 [Filled RFI questionnaire \[see attached link\] and provide any relevant information as required.](#)

This requirement will be fulfilled in South Sudan.

Incomplete RFI submissions will not be considered.

This RFI does not constitute a solicitation. The UN reserves the right to change or cancel the process or any of its requirements at any time during the RFI.

Any requests for clarification about the contents of this RFI shall be sent via email to [joni.kaerpijoki@un.org](mailto:joni.kaerpijoki@un.org).

#### NOTE

Information on tendering for the UN Procurement System is **available free of charge** at the following address: <https://www.ungm.org/Public/Notice>

Only the United Nations Global Marketplace (UNGM) has been authorised to collect a nominal fee from vendors that wish to receive automatically Procurement Notices or Requests for Expression Of Interest. Vendors interested in this Tender Alert Service are invited to subscribe on <http://www.ungm.org>

***Vendors interested in participating in a potential future solicitation process should submit the Vendor Response Form of this RFI electronically (through the link available on the next page) before the closing date set forth above.***



# VENDOR RESPONSE

## NOTICE

- Companies can only participate in solicitations of the UN Secretariat after completing their registration (free of charge) at the United Nations Global Marketplace ([www.ungm.org](http://www.ungm.org)).
- Please verify that your company is registered under its **full legal** name on the United Nations Global Market Place ([www.ungm.org](http://www.ungm.org)) and that your application for registration as vendor has been submitted to the **UN Secretariat** in the same site, to be able to participate in any potential solicitation process as a result of this RFI.
- While companies can participate in solicitations after completion of registration at Basic Level, we strongly recommend all companies to register at least at **Level 1** under the United Nations Secretariat prior to participating in any solicitations.

**PLEASE NOTE: You should submit your response to this RFI electronically at:**

<https://www.un.org/Depts/ptd/node/add/interest-expressed?EOI=RFIUNPD19954>

**In case you have difficulties submitting your response electronically, please contact [joni.kaerpijoki@un.org](mailto:joni.kaerpijoki@un.org) directly for instructions.**



## RFI INSTRUCTIONS

### 1) Registering as a Vendor with the United Nations

Vendors interested in fulfilling the requirement described above must be registered at the UN Global Marketplace ([www.ungm.org](http://www.ungm.org)) with the UN Secretariat in order to be eligible to participate in any solicitation. Information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>.

#### **Prerequisites for Eligibility**

In order to be eligible for UN registration, you must declare that:

- A. Your company (as well as any parent, subsidiary or affiliate companies) is not listed in, or associated with a company or individual listed in:
  - I. the Compendium of United Nations Security Council Sanctions Lists (<https://www.un.org/sc/suborg/en/sanctions/un-sc-consolidated-list>), or
  - II. the IIC Oil for Food List website or, if listed on either, this has been disclosed to the United Nations Procurement Division in writing.
- B. Your company (as well as any parent, subsidiary or affiliate companies) is not currently removed or suspended by the United Nations or any other UN organisation (including the World Bank);
- C. Your company (as well as any parent, subsidiary or affiliate companies) is not under formal investigation, nor have been sanctioned within the preceding three (3) years, by any national authority of a United Nations Member State for engaging or having engaged in proscribed practices, including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice;
- D. Your company has not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against your company that could impair your company's operations in the foreseeable future;
- E. Your company does not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with the Vendor in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15).
- F. Your company undertakes not to engage in proscribed practices (including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice), with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN.

**For Registered Vendors:** Vendors already registered at the UN Global Marketplace with the UN Secretariat must ensure that the information and documentation (e.g. financial statements, address, contact name, etc.) provided in connection with their registration are up to date in UNGM. Please verify and ensure that your company is registered under its full legal name.

**For Vendors Interested in Registration:** Vendors not yet registered should apply for registration on the United Nations Global Marketplace (<http://www.ungm.org>); information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>. Vendors must complete the registration process prior to the closing date of the RFI. Vendors who have not completed the UNGM registration process with the UN Secretariat before the closing date of the RFI are not considered eligible to participate in the potential solicitation process related to the RFI. We strongly recommend all companies to register at least at Level 1 under the UN Secretariat prior to participating in any solicitations.

**IMPORTANT NOTICE: Any false, incomplete or defective vendor registration may result in the rejection of the application or cancellation of an already existing registration.**

### 2) RFI Process

Vendors interested in participating in the potential solicitation process should forward their information (as requested in the RFI) to United Nations Procurement Division (UNPD) by the closing date set forth in this RFI. *Due to the high volume of communications UNPD is not in a position to issue confirmation of receipt of RFIs.*

Please note that no further details of the potential solicitation can be made available to the vendors prior to issuance of the solicitation documents.

This RFI is issued subject to the conditions contained in the RFI introductory page available at <https://www.un.org/Depts/ptd/rfi>.

