



Government of the Republic of the Sudan  
Ministry of Energy & Petroleum

**NATIONAL CHILD MINIGRID PROJECT UNDER THE GEF AFRICA MINIGRID  
PROGRAMME, SUDAN  
REQUEST FOR EXPRESSIONS OF INTEREST  
(CONSULTING SERVICES – INDIVIDUAL CONSULTANT)  
INTERNAL JOB  
Project ID: 00126615**

As part of the UNDP-supported, GEF-financed Africa Minigrid Program (AMP) that the Government of the Republic of the Sudan received finance from the GEF to finance the **NATIONAL CHILD MINIGRID PROJECT**

The project's main objective is to develop solar PV Minigrid as a major avenue for rural electrification in Sudan's rural energy landscape, which is currently an underdeveloped market in which private sector involvement and appetite has been very limited in the past.

The project aims to construct three solar power plants to form a hybrid system with diesel plants Located in three states (will be selected later).

It is intended that part of the proceeds will be applied to eligible payments under the contracts for the recruitment of individual consultant for the position of: *Project Engineer* (full-time) who will be a member of the project implementation unit (PIU). The PIU will be in Khartoum City.

**Ministry of Energy & Petroleum** now invites eligible individual consultants to indicate their interest in the above assignment. Interested consultants must provide information indicating that they are qualified to perform the services in the form of curriculum vitae (CV) detailing position held, project experiences and detailed tasks performed.

The only sort listed candidates will be contacted. the estimated duration of the contract is 12 months with possibility of extension subject to satisfactory performance. The estimated starting date of the assignment is February 2023.

Interested consultants may obtain Terms of Reference (ToRs) for the service or further information from [www.wepd.org](http://www.wepd.org).

Expressions of Interest, detailed CV with attached photocopies of relevant certificates/ testimonials, and telephone contact **in English** and in sealed envelope clearly marked "*Expression of Interest for Project Engineer*" should be submitted to the following address and electronic copy to the below emails:

Ministry of Energy & Petroleum  
Renewable Energy General Directorate  
Khartoum -Almogran  
Eng. Zeinab Mohamed Hassan.  
Mobile: +249 918315141, +249123497645  
Electronic Copy to Emails:

[zeinabmmahjoub@gmail.com](mailto:zeinabmmahjoub@gmail.com), [sudanrenen@gmail.com](mailto:sudanrenen@gmail.com)

Dead line of submission date is 15<sup>th</sup> February 2023 12:00 am, local time Khartoum



**The REPUBLIC OF SUDAN**  
**Ministry of Energy & Petroleum**

**Project:** NATIONAL CHILD MINIGRID PROJECT UNDER THE GEF AFRICA MINIGRID

**Project ID.:** 00126615

**TERMS OF REFERENCE FOR RECRUITMENT OF EXPERTS FOR PROJECT IMPLEMENTATION UNIT (PIU)**

**1. Background**

Sudan's future socio-economic development depends critically on its ability to reduce dependence on fossil fuels. This is critical as Sudan is currently a fossil fuel-poor country. Sustainable Development Goals (SDG7) seeks affordable and reliable energy for all, and this is critical for the development agenda in Sudan. Sectors such as education, health, agriculture need electricity as a key pillar to fully succeed and unfold. In this regard, Sudan has set a target of achieving 80% electricity access by 2030.

Sudan is categorized as a hyper-arid country that is prone to extreme climate events especially droughts. With climate projections showing that the country will continue to experience increased warming, reduced rainfall and prolonged and severe droughts, climate change will continue to impact agricultural production and food security. Thus, adopting less/zero emitting alternative energy sources (solar power) as proposed in this project will contribute to helping Sudan lower its GHG emissions from the agricultural sector and enable the country to meet her international climate change commitments as outlined in her Intended Nationally Determined Contribution. It will also enable Sudan to exploit solar energy that has so far remained underexploited.

Although Sudan presents a high opportunity for renewable energy Minigrid, the uptake of this technology solution for rural electrification has been overlooked in the past. The Sudanese Thermal Generation Company (STGC) operates around a handful of the so-called diesel off-grid stations, which are essentially diesel Minigrid.

This Africa Minigrid Program national child project for Sudan will support the uptake of solar PV in Minigrid, as a cornerstone to help Sudan's renewable energy uptake, decrease their fuel dependency (in particular in off-grid settings), boost new electricity connections and piggyback on previous, existing efforts towards gender equality and gender opportunities too. In this regard, Sudan's target of achieving 80% electrification rate by 2030 is supported by this Child project.

this project seeks to increase access to clean energy by increasing the financial viability, and promoting scaled-up commercial investment, in low-carbon Minigrid in Sudan with a focus on cost-reduction levers and innovative business models.

The General Directorate of Renewable & Alternative Energy under the Ministry of Energy & Petroleum is the Project Executing/Implementing Agency of the Project Titled "**Sudan, National Child Project under the GEF Africa Minigrid Programme**". This project is funded by the **GEF/UNDP**.

The project's main objective is to develop solar PV Minigrid as a major avenue for rural electrification in Sudan's rural energy landscape, which is currently an underdeveloped market in which private sector involvement and appetite has been very limited in the past. To achieve this, the policy and regulation component work and proposed activities is set to play a key role, as Sudan has not developed any off-grid legislation or policy framework. A simple registration process for LV mini-grids is recommended as one of the first project's activities to stimulate bottom-up proposals.



The project is Located in three states (will be selected later), it has two main components with two main outcomes with some activities under main outputs.in order to ensure effective implementation of the **Sudan, National Child Project under the GEF Africa Minigrid Programme**, the Ministry of Energy & Petroleum is seeking a high professional Sudanese Nationals to fill the positions, listed below:

## **2. Duration of Services**

The estimated duration of project is four (4) years. The duration of contract is one year with the possibility of extension of the service contract based on performance of the expert (individual). However, the Project Executing Agency reserves the right to terminate the contract at any time, giving 30-days prior notice, in case the performance of the expert is found unsatisfactory.

## **3. Selection Methodology**

The only sort listed candidates will be contacted; interested consultants may obtain Terms of Reference (ToRs) for the service or further information from [www.wepd.org](http://www.wepd.org).

The Executing Agency will shortlist three to six individual applicants for each position based on the scores secured by these applicants against the evaluation criteria set in the Request for the Expression on Interests.

The shortlisted applicants will be invited for interviews, and applicant's performance in the interviews will be rated out of 100 points. The Executing Agency will combine the results of the shortlisting and the interview processes applying weightings of 0.60 and 0.40 respectively. The applicants will then be ranked on the basis of the combined score.

The applicant with the highest combined score will be invited to negotiate the price and the terms of the contract. If agreement is reached on the negotiations, contract will be concluded with this applicant. Otherwise, the Executing Agency will approach the second ranked applicant and initiate a fresh contract negotiation with this applicant in view of concluding a contract. This process will be repeated in the order of ranking of the applicants until a contract is successfully concluded. Only an applicant with a combined score of 70 points or above will be considered for the position.

## **4. Terms of Reference for Project Engineer**

### **4.1 Project Engineer (One Position)**

#### **- M&E National & Project Engineer (full time)**

The Project Engineer will exercise the following duties and responsibilities:

- Support in detailed design, installation, operation and management through development of manuals capacity building activities, trainings, guidelines etc;
- Provide technical and procurement assistance, installation assistance, and determination of appropriate capacity building activities;
- Abilities to analyze and present high volume of data on-line accurately and in easy-to-understand way.
- ability to analyze and deal with the hybrid systems
- Demonstrate abilities to detail with a high degree of accuracy the Minigrid and power performance data.
- Abilities to perform routine, repetitive tasks accurately.
- Abilities to maintain records and files for easy access and retrieval.
- Assist the inspection of the procured solar Minigrid components to ensure quality and compliance with international and national standards
- Conduct assessments to identify the technical challenges and opportunities in design, installation and after-sales service of Minigrid



Supporting the project outreach and PR activities in general, including keeping the project web-site up to date;

- Support the preparation of the quarterly, half and final project reports and project implementation Reports (PIR).
- Participate in the development of O&M modalities, manuals and support documents.
- Monitor operations to assess progress, identify problems, document lessons learned;
- Work closely with project manager to facilitate stakeholders' workshops.
- Support the development of the M&E system for the project
- Assess physical progress and adequacy of delivering project activities, inputs and outputs.
- Initiate and conduct data gathering, analysis and report writing
- Facilitate studies and project evaluation activities particularly the Mid-term and Terminal Evaluation activities.
- Conduct analysis of the financial delivery in terms of attainment of physical progress, timeliness of procurement of project inputs.
- Coordinate the exchange and dissemination of information among different stakeholders.
- Assess the beneficiaries' involvement in the project activities and assess level of awareness and benefits.
- Collect data on project results segregated by gender and age groups.
- Provide data and information requested by the project board and donors.
- Draft the annual and quarterly reports such annual report and project implementation Reports (PIR).

### Qualifications:

Recruitment Qualifications	
Education:	<ul style="list-style-type: none"> <li>- BSc degree in electrical\mechanical engineering or related field of expertise, including renewable energy, solar energy, electrical power and related fields.</li> </ul>
Experience:	<p>The incumbent should have at least 7 years in solar energy related work experiences including:</p> <ul style="list-style-type: none"> <li>- Practical experience working in solar technologies development, installation, operation, maintenance and monitoring in rural electrification projects</li> <li>- Highly knowledgeable about PV system sizing, design and installations</li> <li>- Relevant experiences of working with national and isolated electrical grids.</li> <li>- Experience on planning, monitoring and evaluation of community energy-based projects;</li> <li>- Additional required experiences include the excellent command of MS office applications (Word, Excel, Access, and Power Point) and have experiences on networking and strengthening capacity of CBOs/CSOs and proven ability to lead a team and to plan and organize work productively with the team.</li> </ul>



	<ul style="list-style-type: none"><li>- Fluent/good knowledge of the Arabic and English languages.</li><li>- Demonstrated experience and success of work in a similar position</li><li>- Experience working in developing countries, preferably Sudan.</li><li>- Ability to work effectively under pressure</li></ul>
Language Requirements:	<ul style="list-style-type: none"><li>- Excellent oral and written command of English and Arabic.</li></ul>