

## Statement of Work PAOP Productive Use of Energy (PUE) Support

Commodity/Service Required:	<i>Productive Use of Energy Support</i>
Type of Procurement:	<i>Individual Consultant Agreement</i>
Type of Contract:	<i>Fixed-cost contract</i>
Contract Funding:	<i>United States Agency for International Development (USAID)</i>
This Procurement Supports:	<i>Power Africa Off-grid Project (PAOP)</i>
Submit Proposal and Quotation to:	<i>paoprocurement@powerafrica-offgrid.org</i>
Original Due Date:	<i>02 August 2021</i>
Extended Due Date:	<i>27 August 2021</i>
Approximate Date Purchase Order/ Agreement Issued to Successful Bidder(s):	<i>TBC</i>

### ABOUT THE POWER AFRICA OFF-GRID PROJECT

The USAID-funded Power Africa Off-grid Project ('PAOP') provides technical assistance and targeted grant funding to support the development of Africa's off-grid solar home system (SHS) and mini-grid sectors. Through a team of resident technical advisors across East and West Africa, PAOP works with companies, investors, and governments to advance the role of the private sector in extending energy access.

By offering broad-based market intelligence to investors/financiers to inform financial product design, advising governments on establishing supportive policy frameworks, and providing hands-on support to companies, PAOP is helping to build the off-grid market to accelerate private sector-led energy access. Specific focus areas:

### BACKGROUND

#### ACTIVITY DESCRIPTION FOR OFFGRID ENERGY MARKET SCOOPING FOR AGRO-PROCESSING SMALL AND MEDIUM ENTERPRISES (SMES) IN NORTHERN UGANDA

PAOP is providing support to many off-grid private sector organizations in Uganda, including vendors, financial institutions, and other companies that work along the agriculture value chain. In some areas of Northern Uganda, the grid power supply is unreliable, forcing the SMEs to use fossil-fuel powered generators, shut down operations when there is no power or generator available, or move operations elsewhere. Many medium scale facilities established by the government have gone defunct or are operating sub-optimally due to the unreliable power supply.

This assignment will focus on Northern Uganda mainly, North (Districts – Gulu, Lira, Kole, Oyam, Amuru, Alebtong, Pader, Agago, Dokolo, Nwoya) and Karamoja (Districts – Kabong, Kotido, Abim, Moroto, Napak, Amudat, Nakapiripirit). Lamwo, Gulu, Lira, Kitgum, Kotido, Karamoja, Soroti. The assignment will bring together the stakeholders including agricultural SMEs, off-grid energy companies and potential investors to discuss the findings of the study.

### OBJECTIVES

This study will help PAOP achieve the following objectives:

1. Assess the state of current power supply to northern Uganda (and West Nile) with a view to understanding how this is impacting SMEs in the region.
2. Undertake a limited analysis of the cost of power for an average agro-SME to establish its power needs.
3. To conduct a market scooping study in Northern Uganda on commercially viable and stable off-grid energy solutions that can be adopted by agro-processing SMEs to realize optimal plant output while protecting the environment from harmful emissions caused by using costly and unsustainable diesel generators.

## DESCRIPTION OF THE ASSIGNMENT

1. Conduct market scoping study on energy needs for agricultural-based SMEs in Northern Uganda. These includes but not limited to the following:
  - a. Field survey to determine actual power usage, diesel usage, quantify power outages, equipment power size and mapping of the proposed off-grid solutions suitable for the companies to bridge the gap.
  - b. Analyzing potential viable off-grid energy solutions, energy model, risk analysis of the proposed solutions that could be explored e.g., mini-grids, commercial & Industrial (C&I), biomass, etc., that could be utilized by the SMEs to improve power reliability for their operations.
  - c. A rapid analysis of potential policy/regulatory implication of establishing an off-grid system in Northern Uganda.
2. Present results that could enable the SME and investors to understand viable off-grid solutions and the opportunities available. The presentation will be to Power Africa Off-grid Project
3. and SMEs involved in the exercise and other relevant stakeholders include female-stakeholders that could be interested in pursuing the available opportunities. The presentation with the larger group of stakeholders that include SMEs, investors etc., might be through a workshop if the conditions will permit, if not then virtual meeting could be organized.
4. An investment proposal showing potential viability of establishing an off-grid system by private sector operator.

## PRODUCT/OUTPUT

1. An indicative workplan and timeline of the study
2. Tools to be used in the field study.
3. PowerPoint presentation.
4. Off-grid market scoping report for SMEs.

## Timeline

The targeted start and end date of this SOW is between August - October 2021, not exceeding a total number of 20 working days.

No.	Deliverable	Reporting deadline
1.	Inception report	By August 27 <sup>th</sup> 2021
2.	Presentation of the tools to be used during field study	By September 03 <sup>rd</sup> , 2021
3.	Mapping exercise detailing agro-processors indicating female-owned or led SMEs where possible and their energy needs as well as existing energy gaps.	By September 24 <sup>th</sup> 2021
4.	Draft report of the mapping study detailing findings of the field study as well as proposed potential viable off-grid power options for agro-processing SMEs in Northern Uganda.	By October 08 <sup>th</sup> 2021
5.	Final report with recommendations on alternative off-grid solutions that agro-processors could adopt to bridge energy needs gaps.	By October 22 <sup>nd</sup> 2021

## Indicative level of efforts:

Level of efforts – 30 working days (8 hours = 1 working day)

## Required Qualifications

- Advanced university degree in energy, development, economics, agriculture, or any related field.
- At least five years of experience working in the agriculture/energy sector(s)
- Consulting experience in the public and private sectors.
- Involvement in complex assignments with similar scope and focus
- Excellent knowledge of the energy situation and agriculture value chains (renewable energy and energy efficiency)
- Strong problem solving, communication, research, and analytical writing skills.

- Must be a native Ugandan or be based in Uganda with at least five years of experience working in-country

**How to apply:**

Interested candidates are requested to submit updated CV, short summary of your expertise and your experience (not more than 1 page), daily consultancy fee rate and related costs (communication, travels) and few sample of similar reports authored or co-authored.

**All Applications should be submitted to [paoprocurement@powerafrica-offgrid.org](mailto:paoprocurement@powerafrica-offgrid.org) no later than the 27<sup>th</sup> August, 2021.**