

## UNDP Expression of interest

UNDP Botswana through the Biogas Project invites interested companies/industries to apply on the following:

### **Summary of proposal:**

The Government of Botswana through Ministry of Mineral Resources, Green Technology and Energy Security, in collaboration with the United Nations Development Programme (UNDP) are implementing a project called “Promoting production and utilization of Biogas from Agro-waste in South-Eastern Botswana (Biogas Project)”. This follows the realization that waste has not been taken as a resource in the country and this waste could be used as a valuable resource. The reuse of waste to generate energy is an opportunity that Botswana must tap into for future use. Several waste streams are available in various agro-industrial facilities which can be utilized for generation of energy. Some of the organic waste for consideration in bio-gas production include chicken manure, cow dung, goat/sheep droppings, wastewater and spent grain. Despite this immense potential presented by the abundance of livestock manure, agricultural/animal waste and other forms of biomass in the country, generation of energy from this waste resources still remains a challenge.

The Biogas project seeks to facilitate low-carbon investments and public-private partnerships in the production and utilization of biogas from organic waste in the districts of South-eastern Botswana. It has been realized that there are no suitable demonstration projects for technology penetration as the current use of biogas in Botswana is limited to small-scale applications and there is no institutional biogas plant operating at either an abattoir, landfill or any industry producing large amounts of organic waste. Botswana having ratified the United Nations Framework on Climate Change Convention (UNFCCC) has the obligation to promote production of green energy and reduce on the Green House Gases (GHGs) emissions. Though Botswana is a minor emitter of greenhouse gases (GHGs), the country is negatively affected by climate change, efforts should be made to reduce emissions.

One of the targets of the project is to support the development of a feasibility study for a medium scale biogas digester to be used for the production and utilisation of biogas in South-Eastern part of Botswana (South East, Southern, Kgatleng and Kweneng districts). The feasibility study aims to determine the viability of implementation of a biogas digester within a selected industry. The viability is based on the quantity of waste produced, the amount of energy (electrical and thermal) that can be produced from the biogas digester and therefore the potential savings to be made by using biogas as a source of energy, the avoided cost of environmental fines associated with mismanagement of organic waste and the cost of implementation of the biogas digester as well as rate of return on the equipment. Once the study is undertaken and the industry commits to proceed with the project, UNDP will further support development of an environmental management plan for the implementation of the biogas digester.

In light of this, UNDP invites prospective companies and/or industries to express interest in the development of a feasibility study for a medium scale biogas plant.

### **Eligibility criteria**

1. Prospects may be private or public sector.
2. Prospects should be locally registered.
3. The EOI should indicate firm interest in undertaking feasibility study and include type and quantities of waste being produced, amount of money spent on electricity per month and willingness to co-finance the feasibility study at 20% of the cost (approximately BWP60,000).
4. The EOI should be accompanied by all company documents. These include, among others, company registration form, tax registration and valid tax certificate.

### **Submission details**

Proposals with reference should be submitted in a sealed envelope clearly labelled, ***“Expression of Interest: Feasibility Study for Biogas Plant”*** to the following address no later than **24<sup>th</sup> March 2021 at 12:00pm** (Botswana Time), to:

*The Resident Representative  
United Nations Development Programme  
P.O. Box 54  
Gaborone*

or by email to: [procurement.bw@undp.org](mailto:procurement.bw@undp.org)

Any request for clarification must be sent in writing, or by standard electronic communication to the address or e-mailed to [enquiries.bw@undp.org](mailto:enquiries.bw@undp.org) UNDP Botswana will respond in writing or by standard electronic mail and will send written copies of the response, including an explanation of the query without identifying the source of the inquiry to all prospective facilitators.

Note: This EOI does not entail any commitment on the part of UNDP, either financial or otherwise. UNDP reserve the right to accept or reject any or all EOI without incurring any obligation to inform the affected applicant/s of the grounds.

Companies/Industries will be selected in accordance with the procedure set out in the UNDP Procurement Guidelines and UNDP Financial Rules and Regulations.

EOI from suppliers failing to provide the request information will be disregarded. Invitations to bid and any subsequent purchase order will be issued in accordance with the rule and procedures of UNDP