



### A crucial need for bioenergy projects in Africa

REGID International's mission is to build social capital in rural Africa populations and enhance livelihoods through the **development biomass energy projects in marginalized areas.**

The International Energy Agency (IEA) estimates that today some **600 million people do not have access to electricity in Africa.** Thanks to technology improvements, Africa has the opportunity to pursue much less carbon-intensive model of development than other parts of the world such as Biomass Energy with Carbon Capture and Storage BECCs.

**84%** Part of the population who do not have regular access to electricity in Africa (IEA)

In West Africa, the agri-residues from tuber crops and post harvest residues are an environmental hazard with **up to 100,000 tons of solid waste generated annually in a village.** REGID develops bioenergy projects that will give value to the solid waste in biomass cogeneration for power and heat access.

### An impact development company

REGID International is a renewable energy impact development company based in Nairobi, Kenya. By providing heat and electricity to SMEs, Telco cell towers, communities and local institutions, these bioenergy solutions contribute to climate mitigation, strengthen the local economy and improve livelihoods with social capital building.

In relation to the above challenges, REGID is leading a consortium of like-minded partners on a biomass energy scaling project in Western Africa that will provide sustainable waste to energy solutions as a solid waste management and clean energy access program.

### A large-scale social and environmental program

Diesel and charcoal are the main sources of energy today in rural Africa. Their use has disastrous consequences on the environment and poses numerous social issues.

REGID International is partnering with ECREEE and Orange that has presence in 17 ECOWAS countries to provide decentralized biomass power solutions for powering businesses, households and Telco cell towers.

The heat and electricity will be used as follows:

- Heat: manufacturing processes for local factories
- Electricity: Telco cell towers, local businesses and households.

**30k** Households that will benefit from our bioenergy program to replace other expensive sources of energy

REGID International is **completing two pilot bioenergy projects both at financial close** in Kuno Village (Kenya) and Asueyi Village (Ghana).

### A sustainable project

The bioenergy project will be implemented in **6 ECOWAS countries for a total power generation of 11.1 MW.** The sources of revenue comprise of heat and electricity with an average of 3.5 years Return On Investment. Most of the feedstock will be available for free (waste of bioproducts). Finally, the estimated life duration of the power plants is 30 years.

**\$55.20 m**

Total estimated cost of the project to develop bioenergy projects in 6 ECOWAS countries including Ghana, Cameroon, Liberia, Ivory Coast, Sierra Leone and DRC

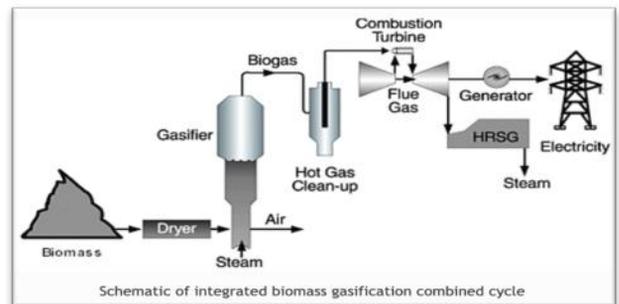
### A large network of international partners

REGID International will work in partnership with both local and global organizations including the energy supplier Siemens, the Telco company Orange, the EPCM company Energidrop and local bioenergy developers. Our large network will contribute to an optimal project implementation.

### A cutting-edge technology

The proven technology consists of **decentralized CHP (Combined Heat and Power) mini grids** that use solid agri-residues or tree branches harvested from agroforestry shrubs as feedstock for power generation through either direct combustion steam boiler or gasification process.

**-90%** Annual carbon emissions comparing to other sources of energy



Most of the feedstocks are available rotationally through different seasons of the year.

### Project status

At this stage, we have commitment from UN, GIZ and our DFI funder of \$ 55 million to finance the project with the scaling pipeline in the 7 countries. However, REGID requires local private capital match making contribution of \$500K to unlock the capital. This is an immediate requirement for the grant access. The UN SCAF will also contribute additional \$2.5 million grant upon completion of the first grant with good deliverables of financing to bring the cumulative 11 MW project to financial close. After this, REGID has mobilized 100% grant and equity capital for CAPEX and Development costs in completing the projects. We are seeking \$500k to unlock this grant in exchange for equity in the business.

### Contact details

Email: [j.daniel@regid-international.org](mailto:j.daniel@regid-international.org)

Phone: +254 725 754 207

Website: [www.regid-international.org](http://www.regid-international.org)