

GVE NIGERIA



Location
Nigeria

PROJECT SUMMARY

The Green Village Electricity (GVE) project is a rural electrification scheme designed to provide clean and reliable energy to off-grid rural communities in Nigeria based on a Pay-As-You-Go (PAYG) revenue collection system.

Developed by GVE Projects Ltd, the plan is to construct isolated mini electricity distribution grids in 72 villages across seven states in Nigeria, each with an installed capacity of between 24kW to 500kW, depending on the size of the community. Once completed, the mini-grids will provide first-time energy access to an estimated 73,500 people, directly supporting Nigeria's high-priority target of universal energy access by 2030.

The developer has 13 operational sites to date, with a total installed capacity of 650kWp, but over the course of the project plans to scale this up to 17.8MW.

REPP is providing funding and access to long-term debt to help build the project into a sustainable business that can attract funding from private sector financial markets, while at the same time contributing towards its own objective of transforming the energy sectors in target countries. To date, REPP's support has enabled ESAs to be carried out on 24 of the sites.

Proving the business model and viability of the project is expected to then attract international investors interested in developing the small-scale renewable energy sector in Nigeria.

Mini-grids offer multiple benefits for Nigeria's rural communities, where access to electricity is sometimes as low as 5% of households. The GVE pilot projects, for example, reported a 40% reduction in energy-related expenditure for their customers, while also increasing productivity, particularly for agro-processing facilities.

AT A GLANCE

Technology

Solar PV
mini-grids



Project type

Off-grid

Offtaker

Off-grid
communities

KPIs



Greenhouse gas emissions avoided: 5,957 tonnes CO₂e per year



People with first-time access to energy: 73,500



Installed capacity: 2.72MW

FUNDING STRUCTURE

Signed: 29 December 2016

Type: Development capital

REPP funding: US\$288,000

SDGs



"GVE's young, dynamic and visionary team is overjoyed to be playing such an important role in the creation of a new, clean energy future for Africa. Thanks to the combined passion, dedication and resilience of our renewable energy sector, over 600 million Africans with no access to decent electricity can now see a bright light at the end of the tunnel."

Ifeanyi B. Orajaka, Managing Director, GVE Projects Ltd