

# **Wholesale price of containerized microgrid in Nigeria**





## Overview

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### How to set a mini-grid tariff in Nigeria?

Developers can establish isolated mini-grids and set their own tariffs so long as they hold mini-grid permits; in this process, the tariff must be approved by the NERC. Nigeria has 11 distribution companies (discos) with load allocated by region – Abuja, Benin, Eko, Enu-gu, Ibadan, Ikeja, Jos, Kaduna, Kano, Port Harcourt and Yola.

### How many mini-grids are there in Nigeria?

GVE, Nigeria's largest mini-grid developer that is also taking part in the NEP, already has a portfolio of 14 mini-grids in operation with a combined installed capacity of 589kW of PV and 4,200kWh of lead-acid batteries. It has 395kW of PV with 670kWh of lithi-um-ion batteries currently under construction. GVE Source: BloombergNEF, company logos.

### Why is the mini-grid development sector so crowded in Nigeria?

The mini-grid development sector is more crowded in Nigeria than elsewhere, re-flecting the fact that the market has significant poten-tial to provide electricity access and displace existing diesel generators, with 587MW of diesel generators imported into the country in 2018 alone (Figure 114).

### Who inspects mini-grids in Nigeria?

The Nigerian Electricity Management Ser-vices Agency (NEMSA) is charged with inspections and certifications of mini-grids, and inspections must take place in order for the NERC to approve the mini-grid permit. Nigerian developer GVE's mini-grids were the first to be inspected by NEMSA, and its projects were benchmarked against the grid code.

### Do you need a permit to build a mini-grid in Nigeria?

Mini-grids below 100kW must register with the NERC, but obtaining the permit is optional. If Nigeria's central grid is later extended to the site of the mini-



grids, developers are to be paid for their depreciated assets plus any operating revenue generated over the prior 12 months.

How many mini-grids will Powergen Nigeria develop under NEP?

PowerGen Nigeria plans to develop nine more projects under the NEP programme. GVE, Nigeria's largest mini-grid developer that is also taking part in the NEP, already has a portfolio of 14 mini-grids in operation with a combined installed capacity of 589kW of PV and 4,200kWh of lead-acid batteries.



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### Micro-Grid

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Microgrid for Rural Electrification in Nigeria cess to reliable energy is necessary for economic and social development. In its resolution, the United Nations General Assembly declarin

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### Guide to Microgrid Development in Nigeria

This guide aims to provide an overview of the steps involved in developing a microgrid in Nigeria, including the different types of microgrids, the regulatory landscape, and the necessary procedures for obtaining licenses ...

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