

Average microgrid storage price per 5MW in Nigeria

What is a Nigerian mini-grid?

Isolated or off-grid mini-grids have been defined by Nigerian regulators as falling into two specific size categories: sub-100kW and 100kW-1MW. Source: REA, Nigeria. How to get a Nigerian mini-grid permit? How to get a Nigerian mini-grid permit? Is a permit required? Is a permit required? Source: BloombergNEF, Rural Electrification Agency.

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

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

How does Nigeria regulate mini-grids?

Monitor performance of the projects after construction. Nigeria allows private companies to build projects and sell electricity to customers. Its regulations define mini-grids as being 1MW or smaller and either isolated or connected to the main grid.

Will Nigeria build a hybrid mini-grid?

In 2019, as proof of concept, the Nigerian government partnered with the Kaduna disco and Torankawa community in Sokoto state to build a 60kW PV hybrid mini-grid with 216kWh batteries and a 100kVA diesel generator.

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 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, Enugu, Ibadan, Ikeja, Jos, Kaduna, Kano, Port Harcourt and Yola.

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