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Botswana Energy Storage Power Supply Procurement



Overview

Does Botswana have a good electricity supply?

According to Statistics Botswana, local electricity generation and distribution has showed a slight improvement, increasing by 10.2 percent from 807,943 MWh during the fourth quarter of 2022 to 890,655 MWh during the first quarter of 2023. The increase was attributable to the performance improvement of Morupule A and B power stations.

Where does Botswana get its power?

In 2023, BPC agreed to procure up to 600 MW of power generation from a yet-to-be-built coal-fired power station. Additionally, Botswana imports the bulk of its power from South African utility Eskom, and the rest from Nampower (Namibia), Zesco (Zambia), and the Southern African Power Pool (SAPP), to make up for any production shortfalls.

How is Botswana strengthening its exporting capacity?

To strengthen Botswana's exporting capacity, the GoB is investing in national and regional grid infrastructure, as well as refurbishment of general transmission infrastructure. Botswana Power Corporation (BPC)'s rural electrification program is still ongoing, and this covers new connections and expansion in some villages.

How much solar energy does Botswana use?

Botswana has tremendous potential for solar energy utilization, with an annual Direct Normal Irradiation equivalent of 3,000 kWh/m²/a in most parts of the country, with an average insolation on a horizontal surface of 21 MJ/ m².

What is Botswana's Integrated Resource Plan (IRP)?

Botswana's Integrated Resource Plan (IRP) continues to provide a roadmap and guidance to achieve a reliable, safe, and affordable electricity supply with a target of renewable energy contributing 30 percent to the energy mix by

2030 from its current negligible contribution.

What does the NEP mean for Botswana?

The NEP indicates Botswana's desire to create a conducive environment that will facilitate investment and create employment in the energy sector. To create a more enabling environment, the GoB set up an energy regulator, the Botswana Energy Regulatory Authority (BERA), which began operation in September 2017.

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