

Botswana container power generation





Overview

Botswana's engineers have created the world's first hybrid storage container combining lithium batteries with indigenous morula fruit cooling techniques. 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.

How much electricity does Botswana need?

The average electricity demand for Botswana is at 850 megawatts (MW), against a generation capacity of 893 MW. Demand of electricity is projected to grow to over 1200 MW by 2030. Additional energy is imported from South Africa. Botswana generates 48% of its power and imports 52% from the Southern African Power Pool (SAPP) 7.

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.

What is the power sector in Botswana?

Revised in April 2025, this map provides a detailed view of the power sector in Botswana. The locations of power generation facilities that are operating, under construction or planned are shown by type – including liquid fuels, gas and liquid fuels, coal, hybrid, hydroelectricity and solar.

Is biomass a source of electricity in Botswana?

Traditional biomass – the burning of charcoal, crop waste, and other organic matter – is not included. This can be an important source in lower-income



settings. Botswana: How much of the country's electricity comes from nuclear power?

Nuclear power – alongside renewables – is a low-carbon source of electricity.

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.



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