

What is Botswana's primary energy supply?

Botswana's total primary energy supply (TPES) is fossil-based and largely reliant on oil products and coal, complemented by biomass and waste energy. A large proportion of TFEC comes from biomass energy in the form of traditional wood fuel (27.8%).

How is electricity generated in Botswana?

Currently, in Botswana electricity is primarily generated from domestic coal resources. Apart from coal-bed methane, there are no proven reserves of other possible fossil fuel resources for energy generation like natural gas or oil. Botswana has large coal reserves, estimated to be in excess of 200 billion tons.

Does Botswana rely on electricity imports?

Until recently, Botswana relied on electricity imports to meet up to 94% of its demand. With the ongoing recovery of the Morupule B plant, the share of electricity imports in total supply has decreased to about 15%.

How much power does Botswana need?

Taking a deeper look at historical power generation figures, Botswana's annual generation has plateaued around the 3700-4000 GWh range. For the long-term target, the government has set a target of 1.5 GW of new capacity by 2040 (Reuters 2021). Botswana has ample domestic resources capable of meeting the power demand.

What is Botswana's energy policy?

Botswana's energy policy is anchored on three key aspects - increasing access to electricity through the Rural Electrification Project, security, and stabilization of the power supply, and onboarding Independent Power Producers, especially within the Solar PV sector (BPC 2020).

Can Botswana generate enough solar power?

With an annual Direct Normal Irradiation of 3000 kWh/m<sup>2</sup>/a, Botswana has a huge potential to generate enough solar power to meet its domestic demand and export to neighboring countries (International Trade Administration 2021). Overall, the country gets more than 3200 hours of sunshine per year.

There are numerous applications for energy storage technologies, including providing support services to the electricity grid, or to an individual consumer "behind-the-meter". Energy storage ...

A blog about Botswana energy matters by Mike Mooiman, 2015/2016 Fulbright Scholar at the University of Botswana and business program professor at Franklin Pierce University, New Hampshire. ... 2011, and 2013) in ...

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