

Introduction to botswana energy storage group

What is Botswana's energy mix?

Botswana's energy mix consists of three primary energy sources - the Morupule A & B coal-fired plants, which, based on their capacity factors, have a 360 MW capacity, the Orapa (90 MW) and Matshelegabedi (70 MW) diesel plants, and 150 MW imports (BPC 2020) (Fig. 3). No information was provided by the author.

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).

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.

Which natural gas reserves are found in Botswana?

The key type of recoverable natural gas reserves found in Botswana is the Coal Bed Methane (CBM), located mostly in the central Kalahari region. The size of the reserves is estimated at 10.8 tcf, which is enough to kickstart a major extraction development (KEB 2020).

Should Botswana invest in renewables?

"While Botswana is endowed with 66% of Africa's coal resources and has ambitious plans to exploit them for both domestic and export use, there are compelling reasons to be thinking strategically about bringing in renewables, both on-grid and as part of the country's off-grid program," Kapika said.

Does Botswana have solar energy?

Botswana has abundant solar energy resources, receiving over 3,200 hours of sunshine per year with an average insolation on a horizontal surface of 21 MJ/m², one of the highest rates of insolation in the world. It is essential to take advantage of the abundance of this resource.

Define a clear regulatory framework to manage risks involved in private sector participation. Perform a location-specific (pre-feasibility) study for renewable energy generation and streamline permitting processes. Conduct a ...

Botswana is endowed with ample solar energy potential, and in that context, the workshop aimed to better understand the key issues affecting the sector, exchange views on regional and international experience, assess

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