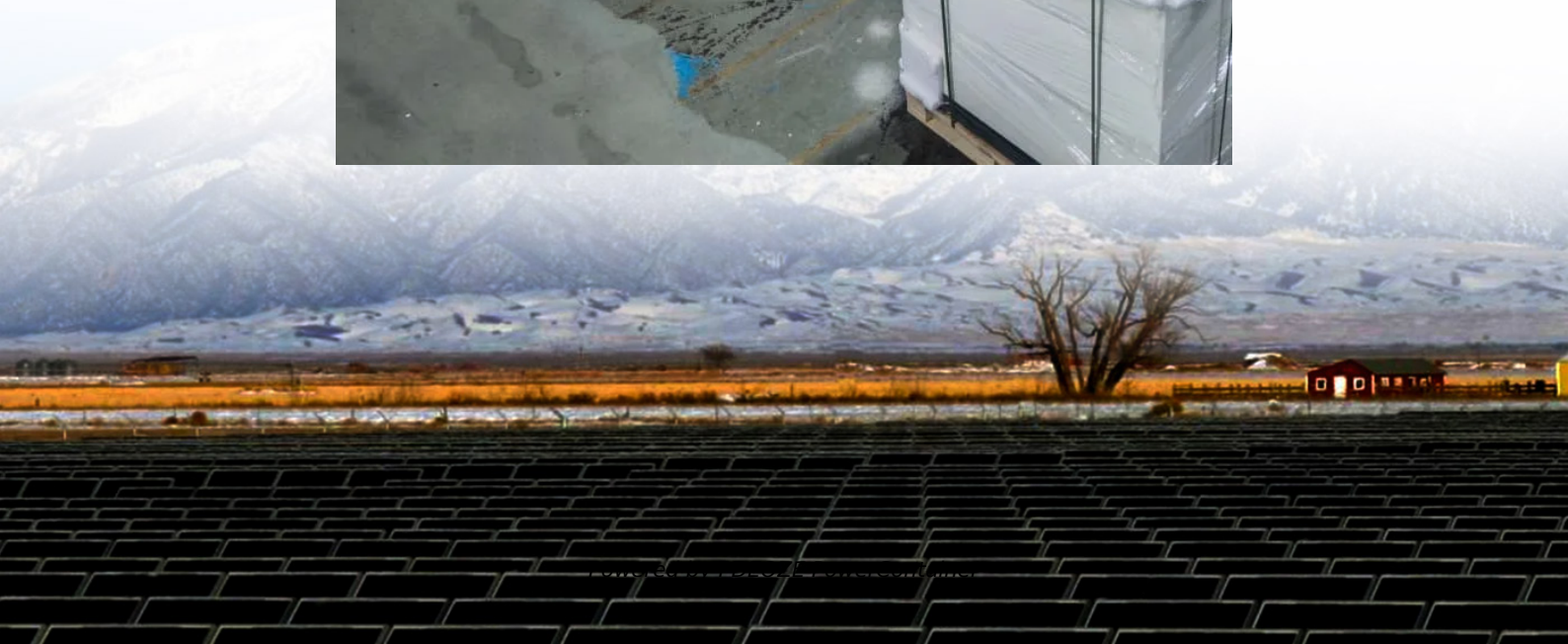


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Namibia Power Generation Energy Storage and Frequency Regulation



Overview

Does Namibia need electricity?

Namibia is heavily dependent on imports for its energy supply. All fossil fuels (coal, fuels) must be imported. Despite the small population and the low electrification rate of 56%, only about 40% of the country's electricity needs can be met from its own generation capacities.

What are the key policies and initiatives guiding Namibia's renewables sector?

There have been five key policies and initiatives guiding the trajectory of Namibia's renewables sector. These are the White Paper on Energy Policy (1998), the Renewable Energy Feed-In Tariff (REFIT) Programme (2011), the National Renewable Energy Policy (2017) and the Namibia Green Hydrogen and Derivatives Strategy (2022).

What is Namibia doing with renewables?

Namibia has had a long history with renewables due to its natural endowments and more recently, efforts to mitigate the effects and adapt to the requirements of a changing climate. There have been five key policies and initiatives guiding the trajectory of Namibia's renewables sector.

What type of energy is used in Namibia?

Overall, primary energy in Namibia is derived from liquid fossil fuels (petroleum, diesel, paraffin, and liquefied petroleum gas), biomass (charcoal, wood, and processed wood products), and coal. At present, renewables play a very small role in the non-electricity energy sector.

Who can develop small power generation facilities in Namibia?

Parties interested in developing small power generation facilities may also look to some of Namibia's Regional Energy Distributors (REDs). Some REDs are looking to develop their own - albeit limited - generation capacity.

Partnering with a RED familiar with the ECB's IPP framework might result in faster project implementation.

Can renewables provide non-electricity energy in Namibia?

However, there is potential for renewables to scale up in providing non-electricity energy (primarily thermal energy for heating and cooking, if Namibia's ample bioenergy resource is utilized effectively, sustainably, and combusted in cleaner ways.

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In September 2019, Namibia adopted the "Modified Single Buyer Framework," which allows independent power producers to directly sell electricity to large power users ...

Namibia imports more than 50% of its electricity imports from neighbouring countries: South Africa, Zimbabwe, and the Southern African Power Pool. Electricity is mainly derived from ...

Purpose This Report presents a Literature Review and Assessment of Regulatory Requirements related to energy storage systems of relevance to Namibia's electricity industry.

"regulated energy storage system" or "RESS" means an energy storage system which uses electrical energy as input, stores this energy and supplies electrical energy as output at a later ...

Government will ensure a Regulatory regime for large-and small-scale Renewable Energy generation projects for off-grid and on-grid systems in urban and rural areas as technology and ...

The core mandate of the ECB is to exercise control over the electricity supply industry with the main responsibility of regulating electricity generation, transmission, distribution, supply, import ...

These, as well as an initial concept for the National Energy Policy, were subjected to in-depth country-wide stakeholder consultations, after which a first draft of the National ...

Up-to-date information on the status of renewable energy regulations and the granting of licenses can be found on the ECB website. Namibia is heavily dependent on imports for its energy ...

In order to increase Namibia's share of RE, reduce its dependency from electricity imports and minimize negative environmental impacts from fossil fuel-based electricity supply, the ...

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