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Namibia solar Energy Storage Planning

Overview

How can Namibia develop a sustainable sector?

It sought to develop a sustainable sector through the state promotion of renewable energies. The white paper notably highlights hydropower, solar and wind energy as renewable sources that could enable Namibia’s economic growth alongside environmental sustainability.

What are the key policies and initiatives guiding Namib-IA's renewables sector?

There have been five key policies and initiatives guiding the trajectory of Namib-ia’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).

How much solar power will Namibia and Botswana generate?

The plant, which occupies 40 hectares, is designed to supply 67.8 GWh of clean energy annually. Finally, Namibia and Botswana are in the comprehensive Regional Market Study phase of the Mega Solar initiative. The project aims to generate 300-500 MW of solar power in Namibia and Botswana.

What is Namibia's First Solar power plant?

Namibia’s first solar power plant was inaugurated in 2015 through the REFiT system. InnoSun Energy Holdings opened the Omburu Solar PV Park in May with an installed capacity of 4.5 MW, generating 13,500,000 kWh a year. The Park covers 40 hectares and contains more than 33,000 panels.

How much solar irradiation does Namibia produce a year?

As a result, our annual solar irradiation reaches values from 2 200 to 2 400 kWh/m2. To put this into perspective, the amount of sunlight received by only

one square metre of Namibian land over a year holds the energy equivalent to powering a significant portion—around 20-24%—of a typical household’s annual energy needs.

How many solar PV plants are there in Namibia?

In 2018, the first twin solar PV plants in Namibia were opened in Gobabis in the Omaheke region. Ejuva One and Ejuva Two solar PV each have an installed capacity of 5 MW5. They have the capacity to feed 25.8 GWh into NamPower’s grid each year.

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By Julien Karambua Country Manager at Workforce Staffing Namibia. Namibia is on the brink of an energy transformation. With some of the highest solar irradiation levels in the ...

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