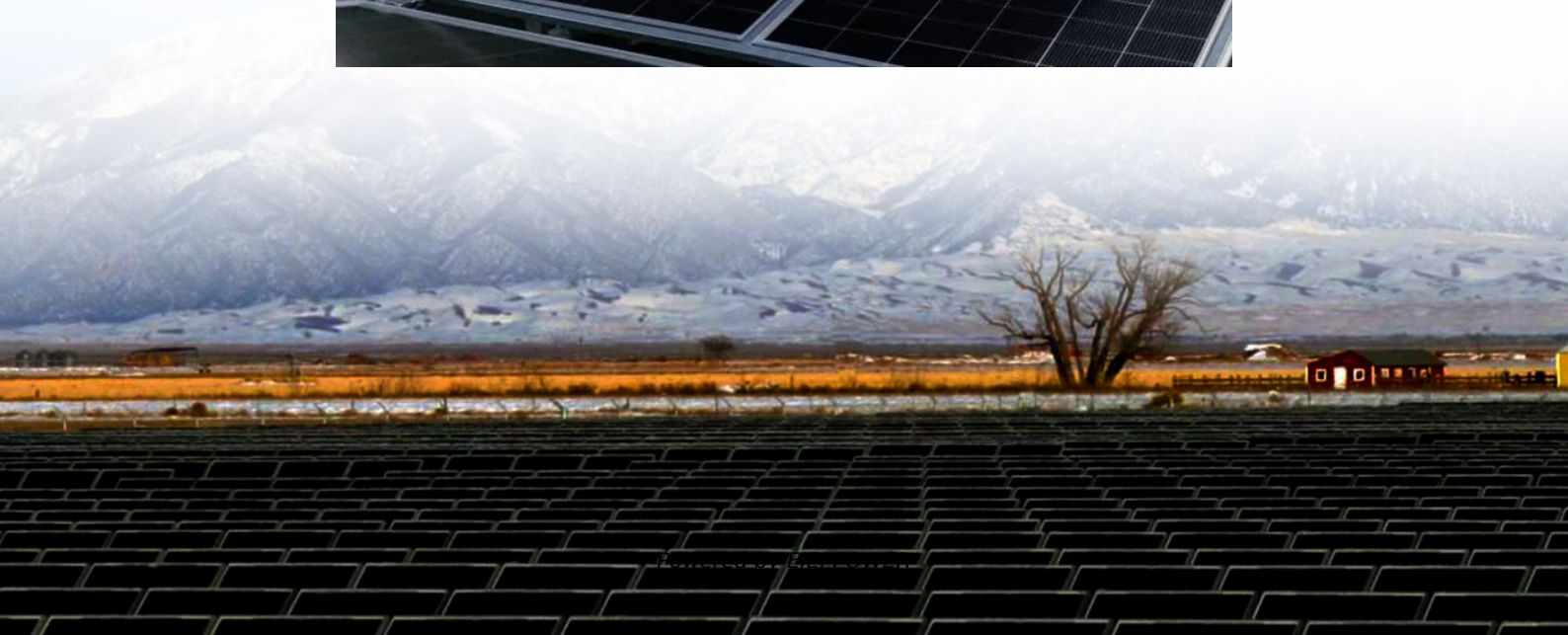


# The prospects for domestic energy storage in Namibia





## Overview

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How much solar energy does Namibia generate a year?

With approx. 300 sunny days and over 3,000 sun hours per year, the annual solar irradiation reaches values of 2,200 to 2,400 kWh/m<sup>2</sup>. Due to the constantly high irradiation, PV systems in Namibia generate twice as much electricity as comparable systems in Germany on an annual average.

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.

How much electricity does Namibia generate per kWp?

Due to the constantly high irradiation, PV systems in Namibia generate twice as much electricity as comparable systems in Germany on an annual average. A daily yield of up to >5.6 kWh can be expected per kWp of installed PV capacity. In comparison, natural conditions for wind power are limited in the region.

Who owns the electricity market in Namibia?

Traditionally, the Namibian electricity market has been dominated by the state-owned utility Namibia Power Corporation (Pty) Ltd., or NamPower for short. In the Namibian electricity market, NamPower was responsible for generation, transmission, distribution and the trading of electricity as well as supplying the end customer.



## The prospects for domestic energy storage in Namibia

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### [Large scale energy storage system Namibia](#)

The Omburu energy storage project is the first independent large-scale grid-side battery energy storage project in Namibia, funded by utility and government grants. The 58MW/75MWh ...

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### [Sector Brief Namibia: Renewable Energy](#)

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## ENERGY PROFILE Namibia

Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by ...

## NamPower awaits proposals in tenders for new solar, storage

5 days ago · The Namibia Power Corporation (NamPower) is seeking contractors willing to install 120 MW of solar and 45 MW of battery storage capacity at two locations in its home country.



## Executive summary - Renewable Energy

...

3 days ago · Namibia's vast renewable energy potential holds significant opportunities for socio-economic development. Located on the Southwest ...



## Executive summary - Renewable Energy Opportunities for Namibia

3 days ago · Namibia's vast renewable energy potential holds significant opportunities for socio-economic development. Located on the Southwest Atlantic coast of Africa, with a small ...

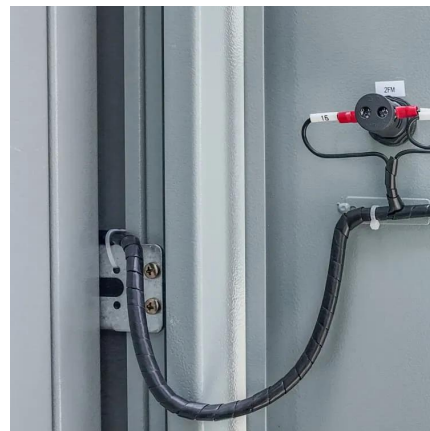


### [Namibia could achieve energy self-sufficiency by 2035](#)

Jul 19, 2025 · "Namibia has doubled its installed renewable energy capacity over the past five years, now sourcing some of its domestic electricity from renewable sources," he said.

### [The Future of Solar Energy in Namibia](#)

Jan 24, 2025 · Challenges to Solar Energy Development in Namibia Despite its potential, the expansion of solar energy in Namibia faces several challenges that must be addressed to ...



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