

Solar energy for the environment namibia

Namibia's renewable energy endowment is genuinely remarkable. The country receives an average of over 3,500 hours of sunshine annually, making it an ideal location for large-scale solar power projects. Additionally, Namibia's coastal regions boast exceptional wind resources, with average wind speeds ranging from 6 to 8 meters per second, presenting a significant opportunity for wind energy development.

The Namibia Energy Regulatory Authority (NERA), established in 2020, is an independent regulatory body overseeing the energy sector. Its mandate includes setting tariffs, issuing licenses, and enforcing regulations, creating a transparent and conducive investment environment for renewable energy development. The National Integrated Resource Plan (NIRP) provides a comprehensive roadmap for integrating renewable energy sources into the national grid, ensuring a reliable and secure energy supply while minimizing environmental impacts.

Namibia's exceptional wind resources, particularly along its coastal regions, have attracted investments in wind energy projects. The Luderitz Wind Farm, Namibia's first large-scale wind farm, commenced operations in 2020 with a N\$1.1 billion (USD 70 million) investment by Diaz Wind Power and Rossing Uranium. The Tsau //Khaeb Wind Power Project, scheduled for completion in 2025, is an N\$8 billion (USD 514 million) investment by Swiss company Hexagon Renewable Energy, with a planned capacity of 450 MW.

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

