

# The renewable energy and green hydrogen landscape in Namibia

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Namibia, situated in southwestern Africa, is emerging as a significant player in the renewable energy and green hydrogen landscape. As a country blessed with abundant solar and wind resources, Namibia has recognized the potential of these renewable sources to address its energy needs and reduce its carbon footprint. This presentation provides an overview of the current state and future prospects of renewable energy and green hydrogen in Namibia. The vast expanses of arid land in Namibia are ideal for solar energy generation, and the country has the potential to become a regional hub for solar power production. In addition to solar energy, wind power is also gaining traction in Namibia. The country's coastal regions exhibit strong and consistent winds, presenting an excellent opportunity for wind energy development. Several wind farms have been established along the coast, contributing to Namibia's growing renewable energy capacity. Namibia's ample renewable resources make it an attractive location for green hydrogen production, positioning the country to become a key player in the emerging global hydrogen economy. The development of renewable energy and green hydrogen in Namibia presents numerous advantages. It reduces the country's reliance on fossil fuels, enhances energy security, and promotes sustainable economic growth. Moreover, the expansion of the renewable energy sector creates job opportunities and contributes to the mitigation of climate change. However, challenges such as infrastructure development, financing, and regulatory frameworks need to be addressed to unlock the full potential of renewable energy and green hydrogen in Namibia. Collaborations with international partners and knowledge sharing can play a crucial role in overcoming these barriers and accelerating the transition to a sustainable and decarbonized energy system in Namibia. Namibia is making significant strides in renewable energy deployment, particularly in solar and wind power, while also exploring the potential of green hydrogen. With its abundant renewable resources and favorable policy environment, Namibia has the opportunity to become a regional leader in the renewable energy and green hydrogen landscape, contributing to both its own sustainable development and the global transition to a low-carbon future.

## Abstract Category

Energy

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