# Resource energy Namibia

Are there energy resources in Namibia?
Geological data suggests that there are considerable oil and gas reserves in the Walvis,Luderitz and Orange River offshore basins. Namibia has considerable solar,biomass,hydropower and wind energy resources; while the total installed renewable energy capacity was 431MW in 2018,the total opportunity is many times greater.

Where does Namibia's electricity come from?
The imported electricity is provided by the Southern African Power Pool (SAPP) primarily from South Africa. Looking at the energy sector more broadly,the total primary energy supply (TPES) in Namibia in 2017 was 20,350 GWh. 15,350 GWh of this TPES came from crude oil,which was all imported into the country.

What is Namibia's energy sector goal?
The Government's energy sector goal,according to Namibia's 5th National Development Plan,is to have a sustainable mix of locally generated capacity of 755 MW by 2022to support households and industry needs,reduce reliance on imports,and increase the national electricity access rate from 49% in 2018 to 67.5% by 2023.

Which areas in Namibia have a good wind energy potential?
Other areas with excellent wind energy potential are the Lüderitz and Hantiesbayareas. Even though there is potential for wind energy growth in Namibia,there is still the concern of wind fluctuations,which may disrupt electricity generation.

What are the different types of energy transformation in Namibia?
One of the most important types of transformation for the energy system is the refining of crude oil into oil products, such as the fuels that power automobiles, ships and planes. No data for Namibia for 2022. Another important form of transformation is the generation of electricity.

How much CO2 does Namibia emit a year?
According to energy statistics the total CO2 emissions from Namibia's energy use were 2800 ktCO2in 2011 (Rämä et al.,2013). The amount of CO2 emissions from the energy sector has been increasing by approximately 4 % per year,on a world scale.

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According to the National Integrated Resource Plan (NIRP) - a 20-year electricity sector development plan aiming to provide an indication of Namibia"s electricity demand - this demand is expected to rise to 930 MW in 2025 and hit 1348 MW in 2030.

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The International Energy Agency (IEA) launched its "Renewable Energy Opportunities Report for Namibia" on Tuesday at the Africa Energy Week: Invest in African Energies 2024 conference. The report explores Namibia"s opportunities for renewable energy and how it can support the country"s development vision.

The renewable energy sector in Namibia is in a critical development stage. Currently the focus is mostly on eliminating barriers to making the usage of renewable energy technologies more universal in everyday life. In order to successfully shift Namibia"s energy systems to a sustainable development path, more investment should be

Once Namibia has successfully incubated the green hydrogen economy, it will enable the country to become a supplier of energy, rather than an importer. Judging from the scale of the initial proposals submitted to Namibia ...

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Namibia has the opportunity to leverage its renewable energy potential as a foundation for broader socio-economic development and industrialisation. By linking the country"s world-leading renewable resources, vast areas of open land and strong and stable democratic institutions, Namibia is positioning itself at the forefront of catalytic change.

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

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