

# Wind power generation hours in South Africa

Insights Despite a 0.4% increase in total energy production in H1 2025, South Africa's electricity demand declined by 2% compared to the same period in 2024. Load-shed energy declined by 82% in the first ...

South Africa's geography favors wind, hydropower, and solar energy, making them the country's leading renewable sources. These resources now account for a growing share of electricity...

South Africa had 560 MW of wind and 960 MW of solar capacity in 2014, producing a total of 2.2 TWh. This more than doubled to 4.7 TWh in 2015, primarily due to an increase in wind capacity...

Wind farms have one major advantage over solar power -- they can provide power at night, including during the evening peak electricity demand periods that put a strain on Eskom's coal ...

Wind turbines can start generating at wind speeds of between 10 km/hr to 15 km/hr (~3 m/s to 4 m/s), with nominal wind speeds required for full power operation varying between ~45 km/hr and 60 km/hr ...

Each wind generator has its own small meteorological station on top of the turbine, as well as an aircraft warning light. The wind turbines at Klipheuwel generate at wind speeds between 11 and 50 km/hour. ...

The Excelsior wind energy facility covers an area of 2,300ha generating over 132GWh annually, enough to power 16,000 households.

The average load factors of wind, solar PV and concentrated solar power (CSP) plants were 35%, 24% and 28%, respectively. These load factors are well within the expected range for South Africa.

Looking for archive data?

The Global Wind Atlas is a free, web-based application developed to help policymakers, planners, and investors identify high-wind areas for wind power generation virtually anywhere in the world, and then ...



# Wind power generation hours in South Africa

Web: <https://rocksteadyfloors.co.za>

