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Title: Harare s wind power system

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Can wind energy be harnessed in Zimbabwe?

Zimbabwe as a landlocked country is not rich in wind energy resources (Samu,Fahrioglu,and Taylan 2016; Tawanda Hove,Luxmore Madiye 2014). However,with the advances in technology leading to the development of wind turbine prototypes with a lower cut in speeds,it can be possibleto harness wind energy in Zimbabwe.

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How much energy can a wind turbine generate in Zimbabwe?

The investigation shows that a 2.5kW wind turbine installation in Mangwe can generate more than 3MWh of energy per annumat hub heights above 40m,which is enough to supply power to a typical Zimbabwean rural village. This result will encourage investment in the use of wind to generate electricity in Zimbabwe.

How many coal-powered thermal stations are there in Zimbabwe?

There are about fourcoal-powered thermal stations in the country,namely Munyati Power Station,Harare Power Station,Bulawayo Power Station,and Hwange Power Station,which have operated since the country gained independence approximately 50 years ago (Government of Zimbabwe,2019).

Does Zimbabwe have a good energy supply?

Zimbabwe's coal supply significantly contributes to its energy provision, accounting for 12.9% of the total energy supply in 2021. Coal is a widely exchanged fossil fuel, and its burning is accountable for many global CO 2 emissions. Figure 2 shows Zimbabwe's position in both African and global ranking across different indicators.

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In this study, different methods for determining Weibull  $k$  and  $c$  from wind speed measurements are reviewed and applied at four sample meteorological stations in Zimbabwe.

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Wind energy potential exist in most parts of Zimbabwe for wind pumping and other mechanical conversion systems, with utilizable wind speeds ranging from 2.6 m/s to about 4 ...

The authors perform a comparative analysis of the efficiency of two types of low-power wind energy conversion systems with horizontal and vertical axis in the meteorological conditions of ...

The wind turbine generator enable conversion natural wind into power; wind vane absorbing the wind energy to making the wind generator rotate, and then covert the wind power into electric ...

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