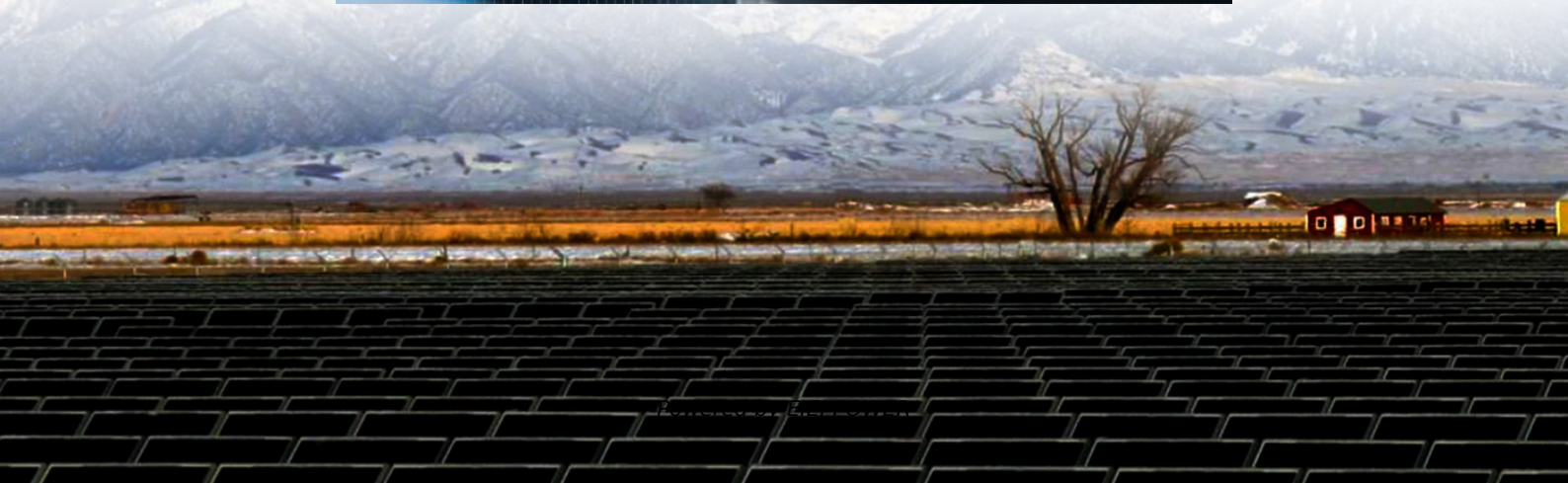


Nouakchott mobile energy storage site wind power 3 44MWh





Overview

What is the wind power density at Nouakchott South?

The results show that the mean annual wind speed and wind power density at the Nouakchott South site are, respectively (6.42 m/s and 185.25 W/m²), (7.06 m/s and 230.48 W/m²) and (7.72 m/s and 287.8 W/m²) at 20, 40 and 60 m.

Does Nouakchott South have a good wind potential?

The Nouakchott South site has a good wind potential compared to Nouakchott North site with an annual wind power density of 179.83 W/m², 224.31 W/m², and 287.82 W/m² at 20, 40 and 60 m; respectively. The dominant wind directions at Nouakchott South are northwest and northeast, and north and northwest for the Nouakchott North site.

What is a wind farm in Mauritania?

This is the first commercial scale wind farm in Mauritania. In addition, a 100 MW Boulenouar wind farm is scheduled to be operational in 2024. This project aims to provide clean and renewable energy, reduce Mauritania's dependence on fossil fuels, and contribute to a sustainable energy system.

How does Weibull distribution predict wind speed in the Nouakchott Region?

The study focuses on the Nouakchott region, where wind characteristics are analyzed over a 12-month period using the wind speed data measured at different heights 20, 40 and 60 m. In this study, as mentioned earlier, Weibull distribution is used to model the wind speed probability through specific graphs.



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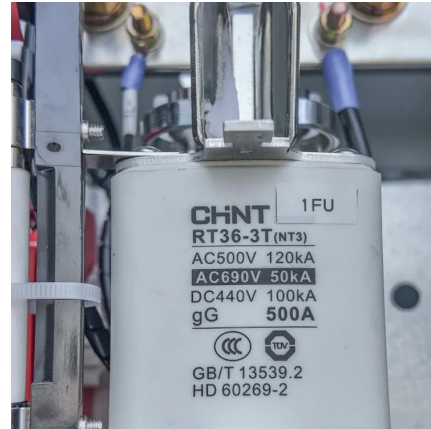
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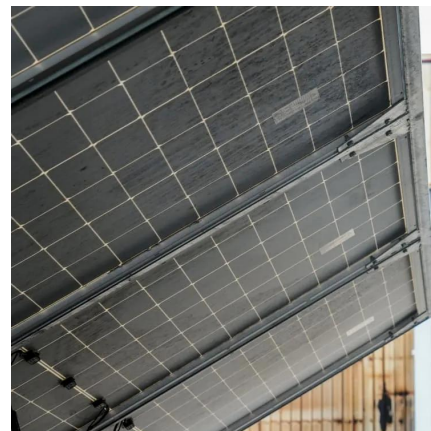


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