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Chad solar communication base station wind power 7MWh



Overview

Why is electricity important in Chad?

Access to reliable energy is fundamental for the development of any community. The electricity is produced in Chad solely from thermal plants that use fossil fuels, which are not environmentally friendly. In addition, the electrification rate of Chad is less than 11%.

How fast does wind energy work in Chad?

The global solar radiation varies from 4.5 to 6.5 kWh/m²/d. For the wind energy, the speed of calm winds varies from 4 m/s to 9 m/s from south to north. Our motivation aims to propose hybrid energy systems to resolve the low access rate of electricity in Chad.

Are hybrid energy systems a viable alternative to fossil fuels in Chad?

The electricity is produced in Chad solely from thermal plants that use fossil fuels, which are not environmentally friendly. In addition, the electrification rate of Chad is less than 11%. This work aims to propose some reliable electrification options for Chad, through hybrid energy systems.

Can solar/wind/diesel/batteries provide electricity in 25 sites of Chad?

assessed the Grid/PV/Wind hybrid energy system viability to provide electricity in 25 sites of Chad. designed a solar/wind/diesel/batteries for three climatic zones of Chad. investigated the feasibility of solar/wind/diesel/batteries for the supply of energy needs of Amjarass (a town in Chad).

How a hybrid energy system can improve electricity access rate in Chad?

The renewable energy implementation with hybrid system design can significantly reduce greenhouse gas emissions and increase electricity access rate in Chad. The National Electricity Company generates electricity using only the diesel generators.

Does Chad have a hybrid energy system?

In this study, the hybrid energy systems are proposed for all the regions that are not yet electrified in Chad. The National Electricity Company (NEC) of Chad produces and distributes the electricity only in 7 of the 23 regions of Chad; meaning that 16 are un-electrified.

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