

A-Core Container

What are the wind and solar complementary technologies for communication base stations in Burkina Faso



Overview

Is Burkina Faso suitable for solar power projects?

This suitability assessment was carried out at the request of the Government of Burkina Faso to map potential areas for utility-scale solar photovoltaic (PV) and wind projects. Currently, less than 25% of the population has access to electricity and the majority of those with access live in urban areas.

Can Burkina Faso achieve 95% electricity access?

The country aims to reach 95% electricity access, with 50% in rural areas and universal access to clean cooking solutions in urban areas, with 65% in rural areas by 2030, up from 9% in 2020. The utilisation of Burkina Faso's renewable resource potential would enable the country to reduce its heavy reliance on thermal generation and energy imports.

How accurate is land cover classification in Burkina Faso?

This dataset has been extensively validated using in situ information from 3 134 stations around the world. As such, the accuracy of the land cover classification is approximately 62.6% (Bontemps, et. al, 2011). Figure 8 shows the land cover for Burkina Faso.

What data does the World Bank have about solar irradiation?

Datasets, such as the World Bank's Global Solar Atlas and Transvalor's SODA solar maps, cover more than 20 years of hourly historical data at 1 km grid cell resolution; they allow the calculation of a representative long-term average annual global horizontal irradiation (see section 3.1).

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