

Cameroon Douala Glass Factory solar Project





Overview

Why is Douala a good location for solar PV installations?

This consistent year-round production makes Douala an excellent location for solar PV installations. The minimal variation between seasons ensures a reliable energy supply throughout the year, with winter and spring being particularly favorable for solar generation.

How to optimize solar generation in Douala Cameroon?

Assuming you can modify the tilt angle of your solar PV panels throughout the year, you can optimize your solar generation in Douala, Cameroon as follows: In Summer, set the angle of your panels to 12° facing North. In Autumn, tilt panels to 11° facing South for maximum generation.

How much solar power does Cameroon produce a year?

Seasonal solar PV output for Latitude: 4.0575, Longitude: 9.691 (Douala, Cameroon), based on our analysis of 8760 hourly intervals of solar and meteorological data (one whole year) retrieved for that set of coordinates/location from NASA POWER (The Prediction of Worldwide Energy Resources) API: Average 4.20kWh/day in Summer.

How much solar energy does Douala produce?

The solar energy output in Douala remains relatively stable across all meteorological seasons. Winter stands out as the most productive period, yielding 5.43 kWh per day for each kilowatt of installed solar capacity. Spring follows closely with 4.99 kWh/day, while autumn and summer produce 4.50 kWh/day and 4.20 kWh/day, respectively.



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