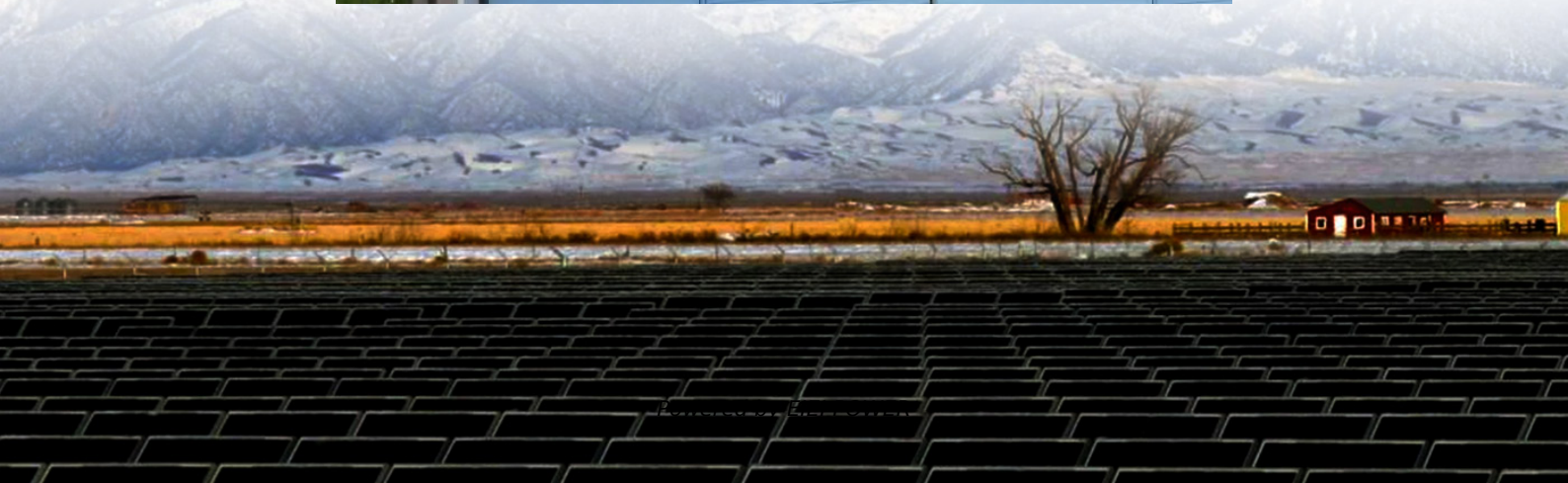


# **Cameroon Douala quality solar container battery cost performance**





## Overview

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Where are solar photovoltaic power plants located in Cameroon?

For this purpose, we have chosen the solar photovoltaic power plants in the Far North and Littoral regions of Cameroon, where we will estimate, for each of them, the influencing parameters, followed by an exergy and economic analysis, with a simulation at the end of the chain.

Does Cameroon have a solar time-space map?

The results of this study conducted on installations in Cameroon are in agreement with the results of the work of Rahnema et al. on the concepts of exergoeconomic and exergoenvironmental solar time-space maps for photovoltaic systems developed in the Iraqi context although located in quite different latitudes .

Why is the cost of electrical energy important in Maroua?

As for the exergoeconomic analysis, the cost of electrical energy becomes very important when storage is included, for example, the cost per kWh of useful electrical energy in Maroua is 0.130 USD because of the important storage of batteries which increases the investment.

What is the climate like in Douala?

The Douala area (latitude  $4^{\circ}2'60''$  N; longitude  $9^{\circ}41'60''$  E, altitude 424 m), located in the Littoral region or coastal area (southern part of Cameroon) and whose climate is humid, is characterized by a long rainy season and a very short dry season. The average hardly exceeds  $34^{\circ}\text{C}$ .



## Cameroon Douala quality solar container battery cost performance

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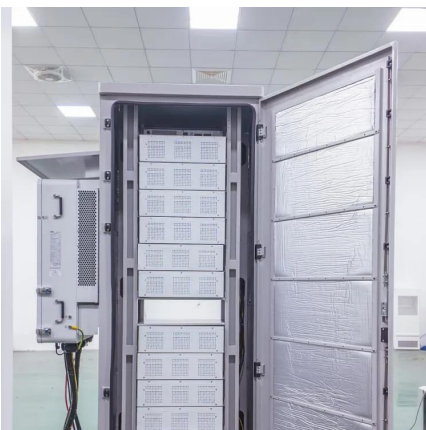
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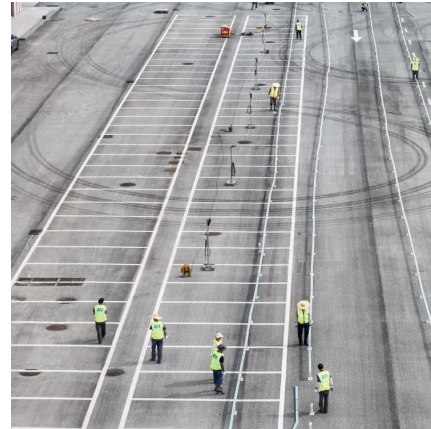
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