

## A-Core Container

# Yaoundé solar Power Station Power Generation



## Overview

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Could Yaounde City Council invest in solar energy?

The investment indicators for this project are quite bankable that the Yaounde City Council, with the recent decentralization of municipalities, could source partnership agreement with the Rural Electrification Agency in lobbying solar energy investors to set up this project which could be used as an additional source of income for the council.

How much solar radiation does Yaounde have?

Yaounde has an annual solar radiation of 4.69 kWh/m<sup>2</sup>/d where the month of July had the least average solar radiation and January has the highest solar radiation. Table 2. Average monthly solar PV electricity exported to the grid

### 3.1. Electricity generation.

How can Cameroon achieve universal access to modern energy services?

The results show that achieving universal access to modern energy services in Cameroon requires prioritising investments in grid densification, extension, and modernisation, along with distribution systems. It is also found that mini grid PV systems can play a significant role in meeting Cameroon's electrification goals.

Can a solar PV power plant be built in Cameroon?

In line with this goal, the study assesses the feasibility of a 211.75 MW solar PV power plant in Yaounde, Cameroon using RETScreen Expert. The simulation showed an annual electricity production of 304,668.191 MWh with arrays mounted on a fixed axis.

Can a mini grid PV system achieve universal energy access in Cameroon?

Results show investments in grid densification, extension and modernisation are crucial to achieve universal energy access. In addition, mini grid PV systems can play a significant role in achieving the electrification targets in

Cameroon.

What is the economic viability of solar PV project in Cameroon?

Economic viability of the solar PV project show the economic viability of the solar PV project with a cost of energy (COE) of \$75.43/MWh or \$0.075/kWh which is equivalent to 48.75 FCFA (far less than the 82 FCFA tariff for commercial users in Cameroon).

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### Contact Us

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