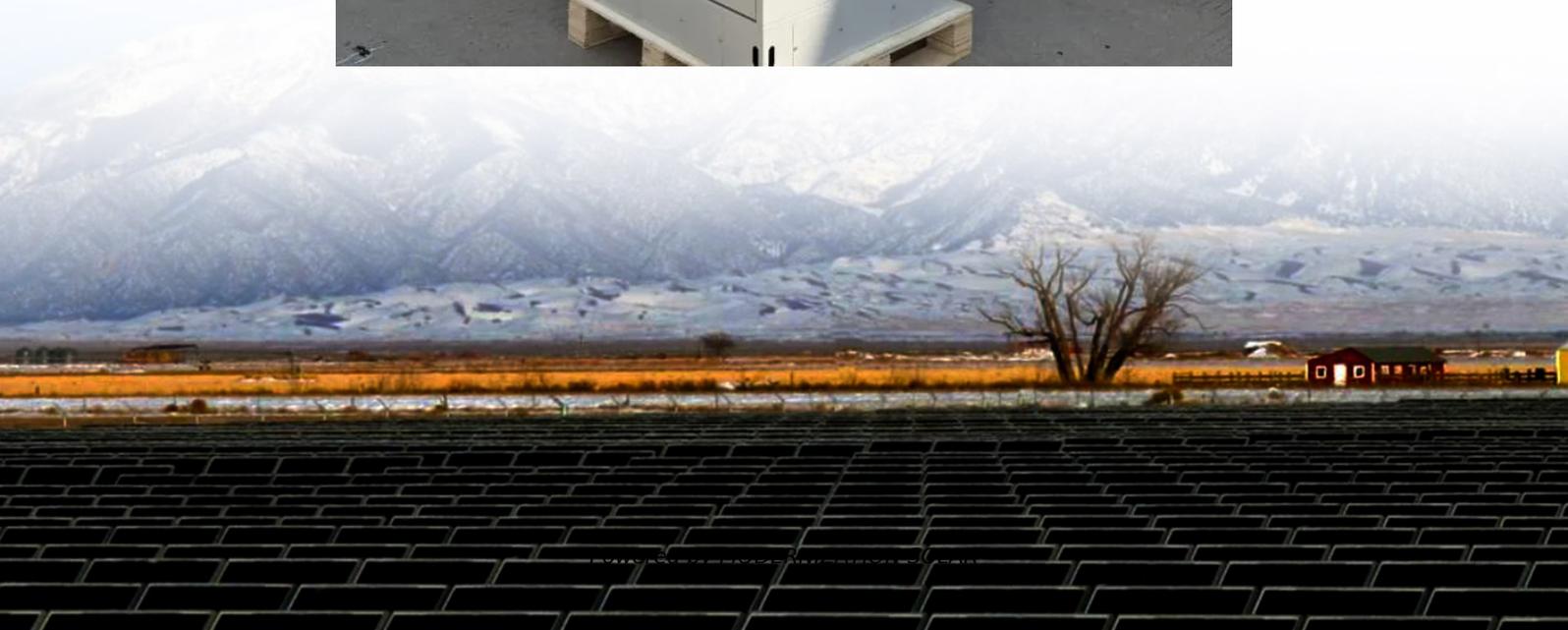


# **Off-grid solar container hybrid type for sports stadiums**





## Overview

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Why do sports stadiums need a photovoltaic system?

Recent advancements in renewable energy technologies have further strengthened the case for their integration into sporting stadiums . The efficiency and cost effectiveness of photovoltaic (PV) systems have improved over time making them a practical choice, for generating energy on a large scale .

Can solar and wind energy be used in stadiums?

This study highlights the feasibility and benefits of integrating solar and wind renewable energy systems into the energy supply of stadiums in five Ivorian cities. The results demonstrate a significant reduction in grid dependency, with renewable energy contributions ranging from 20.1% in Abidjan to 69.9% in San Pedro.

How much energy does a stadium use?

Production and Consumption Summary Stadiums in Abidjan require an average daily energy consumption of 48,158 kWh, with a peak demand of 9392 kW (Figure 6). Figure 14 presents the proposed system which addresses the electrical load requirements of the stadiums through various generation sources.

What percentage of energy comes from grid purchases?

The majority of the energy, however, comes from grid purchases, amounting to 14,063,465 kWh/year, which constitutes 79.9% of the total energy production. Grid purchases dominate the energy supply, supplemented by wind sources, and some minimum contribution from solar energy.



## Off-grid solar container hybrid type for sports stadiums

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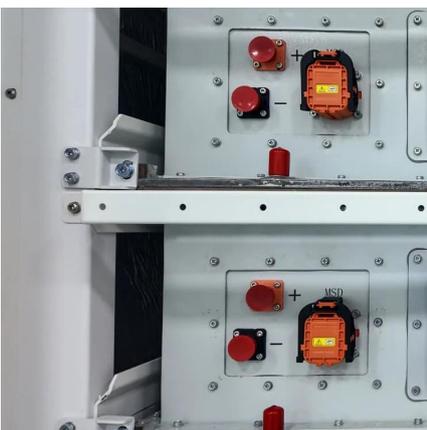


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## Identifying challenges, benefits, and recommendations for ...

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