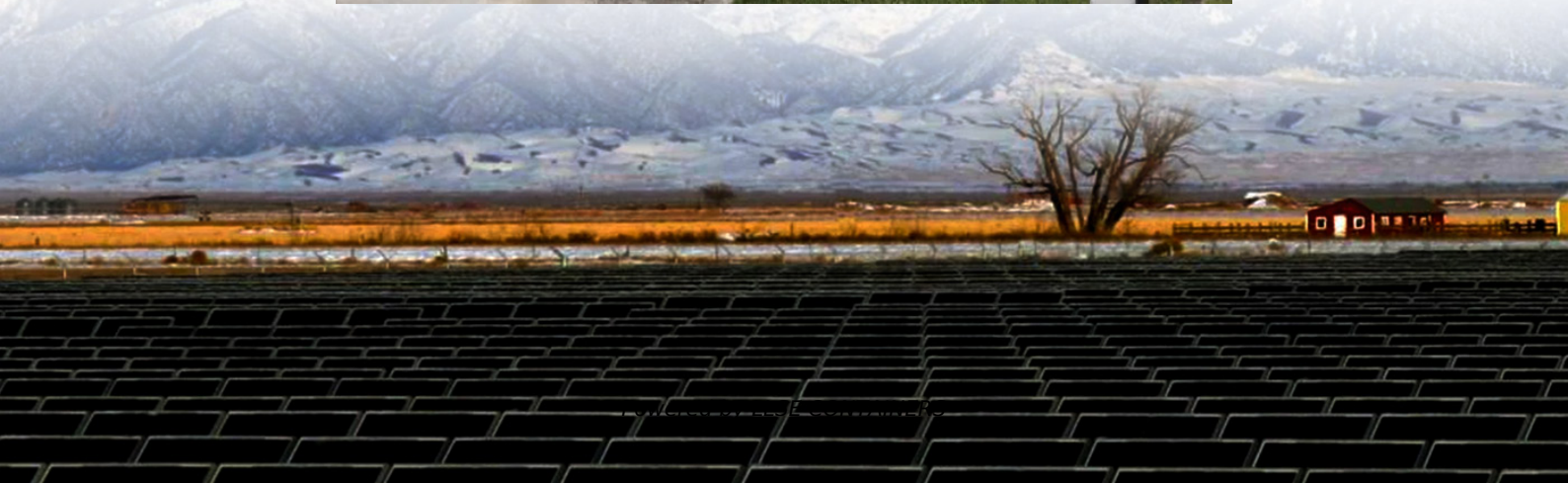


# **Hybrid Energy for Mobile Wireless solar container communication stations**





## Overview

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What is a photovoltaic-diesel hybrid system for mobile phone base station?

This work concerns the techno-economic study of photovoltaic-diesel hybrid system for mobile phone base station located in Oum el Bouaghi city (in southern Algeria). This system is made up mainly of a photovoltaic panel, a diesel generator, power converter and lead-acid battery.

How much sunlight does a mobile phone base station receive a year?

It is estimated at more than 3000 h of sunshine per year and 5 kWh of daily energy received on a horizontal surface of 1 m<sup>2</sup> over most of the country. This work concerns the techno-economic study of photovoltaic-diesel hybrid system for mobile phone base station located in Oum el Bouaghi city (in southern Algeria).

Can hybrid PV-diesel energy system provide MBS in remote rural areas?

This work presents design and techno-economic study of hybrid PV-Diesel energy system to supply MBS in remote rural areas in Algeria. The hybrid system under consideration reduces the operating cost and limits air and noise pollution that arises from diesel generator.



## Hybrid Energy for Mobile Wireless solar container communication st

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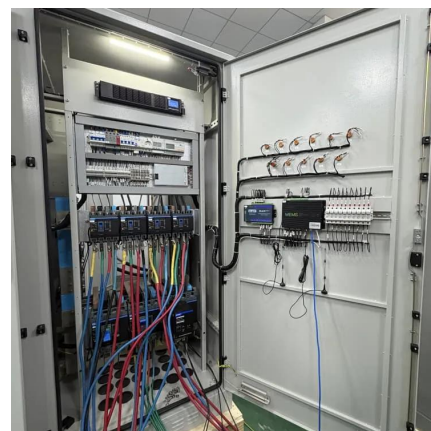
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