

Is Cuba s solar air conditioning suitable





Overview

Is Cuba a vulnerable energy system?

Cuba is currently in a vulnerable energy situation since it strongly depends on the importation of fossil energy. Strategies based on intermittent RES (solar and wind) can reduce this vulnerability, but the introduction of this type of source impacts the energy system's characteristics and aspects at a country/regional scale.

How much solar energy does Cuba have?

Due to its geographical location in the tropical latitude, the country is extremely well endowed with solar energy. Studies on climate conditions provide confirmatory evidence of around 2 800 sunshine hours (32% of utilization factor) annually. The daily average solar energy that reaches Cuban land throughout the year is 5 kWh/m².

What are the limitations of a solar energy system in Cuba?

Other limitations are related to the geopolitical situation of Cuba. While wind and solar use free energy once installed, they require a significant and immediate investment. However, due to the embargo affecting the country, the Cuban authorities have difficulty accessing the banking system to borrow the money necessary for investments.

How can solar and wind power improve energy security in Cuba?

Every time solar and wind capacity is progressively increased, Cuban authorities will save on fuel costs and achieve environmental improvements and energy security. The money saved could be gradually reinvested in new solar and wind power installations.



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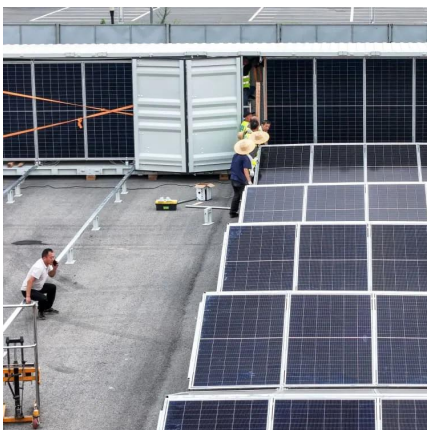
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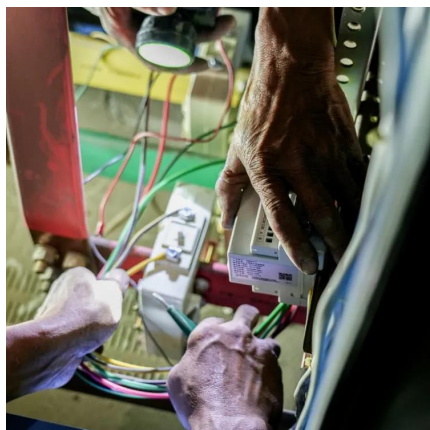


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