

Solar power generation and energy storage in Cuba





Overview

What types of energy systems are covered in Cuba?

Coverage includes generation and storage systems, renewable energy installations (hydropower, solar PV, wind, biomass, ocean, and solar thermal), electrical grid history and characteristics, and an analysis of Cuba's electrical energy resiliency.

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.

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.

How many solar parks will Cuba build by 2025?

The Cuban government's plan is to install 55 solar parks similar to the one in Cotorro by 2025. The total capacity will be 1,200 MW. These are part of a broader project running until 2028, which aims to build 92 parks, with the goal of adding more than 2,000 MW to the National Electro-Energy System.



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Cuba's Energy Company Begins Solar Battery Installation for Power ...

Aug 3, 2025 · Cuba is investing in solar energy and battery storage to address its severe energy crisis, reduce dependency on fossil fuels, and improve the reliability and stability of its power ...

[Cuba Faces 2025 Solar Energy Shortfall Threat](#)

Oct 4, 2025 · While the 2025 goals seem out of reach, the determined push for solar energy remains the cornerstone of Cuba's strategy for a more resilient and sustainable future. To ...



Strategies toward an effective and sustainable energy transition for Cuba

Jun 1, 2024 · Despite Cuba's enormous solar energy potential, the best option is to use combined solar and wind energy. However, in the absence of energy storage, solar and wind resources ...



[Cuba completes 130 MW of solar capacity](#)

Apr 4, 2025 · The Cuban Ministry of Energy announced the completion of six solar power plants totaling 130.8 MW in March. Each plant has a capacity of 21.8 MW and is located across five ...



[The Cuban government promises solar energy, but without ...](#)

Mar 24, 2025 · Cuban government promises solar energy, but without batteries to store electricity. The plan aims for one thousand megawatts of solar energy by 2025, but without installed ...



[Cuba promises solar energy, lacks battery storage solutions.](#)

Mar 24, 2025 · The Cuban government's strategy for boosting solar power generation is part of a larger commitment to renewable energy sources amidst an ongoing energy crisis that has left ...



[What We Know of the Cuban Government's 55 Solar Park Plans](#)

Mar 5, 2025 · Beyond the expectations for the opening of the solar parks and the possibility of easing the country's energy crisis, how is the overall plan progressing, and what challenges ...





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