

## SolarTech Power Solutions

# How many underground energy storage projects are there in Cuba



## Overview

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The plan aims for one thousand megawatts of solar energy by 2025, but without installed batteries, which prevents meeting nighttime demand and limits its effectiveness against persistent blackouts. The Cuban government announced that it plans to incorporate one thousand megawatts (MW) of solar.

Yet Cuba's power outages increased by 23% in 2023 despite adding 450MW solar capacity. What's really going wrong?

Cuba currently operates 186 renewable parks generating 25% of its electricity. But here's the kicker – less than 15% have proper energy storage systems. "We're basically throwing away.

With its aging power infrastructure and reliance on imported fossil fuels, Cuba's push for energy storage solutions isn't just trendy—it's survival. Over the past decade, blackouts lasting 8–10 hours have plagued households and businesses. But here's the twist: Cuba's renewable energy capacity grew.

On Saturday, Cuba initiated the installation of solar energy storage batteries at four electrical substations, marking a significant step in addressing its energy challenges. These Battery Energy Storage Systems (BESS), also referred to as "concentrator units," are being placed at Cueto 220, Bayamo.

On October 18, 2024, Cuba experienced a catastrophic power failure that left half of the population—10 million people—without power. This massive blackout highlights the vulnerability of outdated power infrastructure, strained by aging oil-fired plants, frequent breakdowns, and fuel shortages.

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