

## SolarTech Power Solutions

# Are solar and energy storage two different industries



## Overview

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The AES Lawai Solar Project in Kauai, Hawaii has a 100 megawatt-hour battery energy storage system paired with a solar photovoltaic system. Sometimes two is better than one. Coupling solar energy and storage technologies is one such case. The reason: Solar energy is not always produced at the time.

The wind and solar energy storage sectors represent critical components of the renewable energy landscape, essential for addressing the intermittent nature of these energy sources. 1. These industries work to create systems that harness and store energy generated from wind and solar resources.

Solar and storage are a dynamic pair, and together will form the backbone of a clean, reliable electricity system. Storage is critical to our nation's climate stability, energy resilience and abundance, and to a smoothly operating grid. With the support from policymakers, storage can help America.

Tesla, BYD & CATL are some of the businesses capitalising on the intermittent nature of solar power with storage systems set to grow to support renewables Solar photovoltaic (PV) and wind have constituted the majority of new global power capacity for several years according to the United Nations.

Lithium-ion batteries dominate the market, but other technologies are emerging, including sodium-ion, flow batteries, liquid CO2 storage, a combination of lithium-ion and clean hydrogen, and gravity and thermal storage. There is a growing need to increase the capacity for storing the energy.

Large industries that consume a massive amount of electricity, generated via traditional sources, account for 22 percent of the CO<sub>2</sub> emission for manufacturing goods from raw material. On the other hand, renewable energy has advanced as a practical choice for companies across many industries.

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