

# Can solars and energy storage be combined





## Overview

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Can solar energy be combined with solar photovoltaic?

The AES Lawai Solar Project in Kauai, Hawaii demonstrates that solar energy and storage technologies can be coupled. It features a 100 megawatt-hour battery energy storage system paired with a solar photovoltaic system. This combination helps address the intermittency of solar energy production.

Should solar energy be combined with storage technologies?

Coupling solar energy and storage technologies is one such case. The reason is that solar energy is not always produced at the time energy is needed most. Peak power usage often occurs on summer afternoons and evenings, when solar energy generation is falling.

Why do we need a solar energy storage system?

The need for these systems arises because of the intermittency and uncontrollable production of wind, solar, and tidal energy sources. Therefore, a storage system that can store energy produced from renewable energy sources and then convert it into electrical energy when required is highly needed.

What is energy storage?

Energy storage is a system that can help more effectively integrate solar into the energy landscape. Sometimes it is co-located with, or placed next to, a solar energy system, and sometimes the storage system stands alone.



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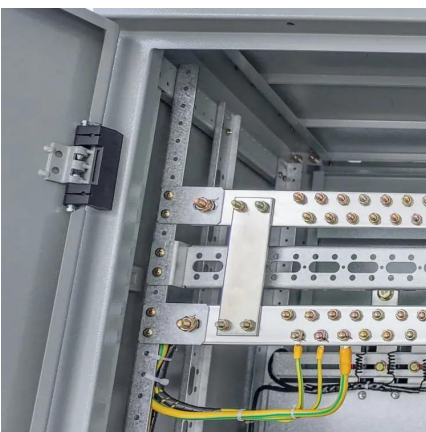
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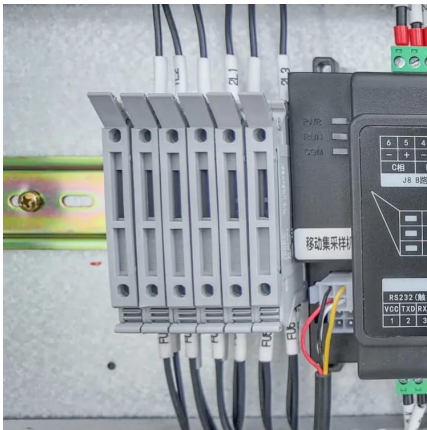
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