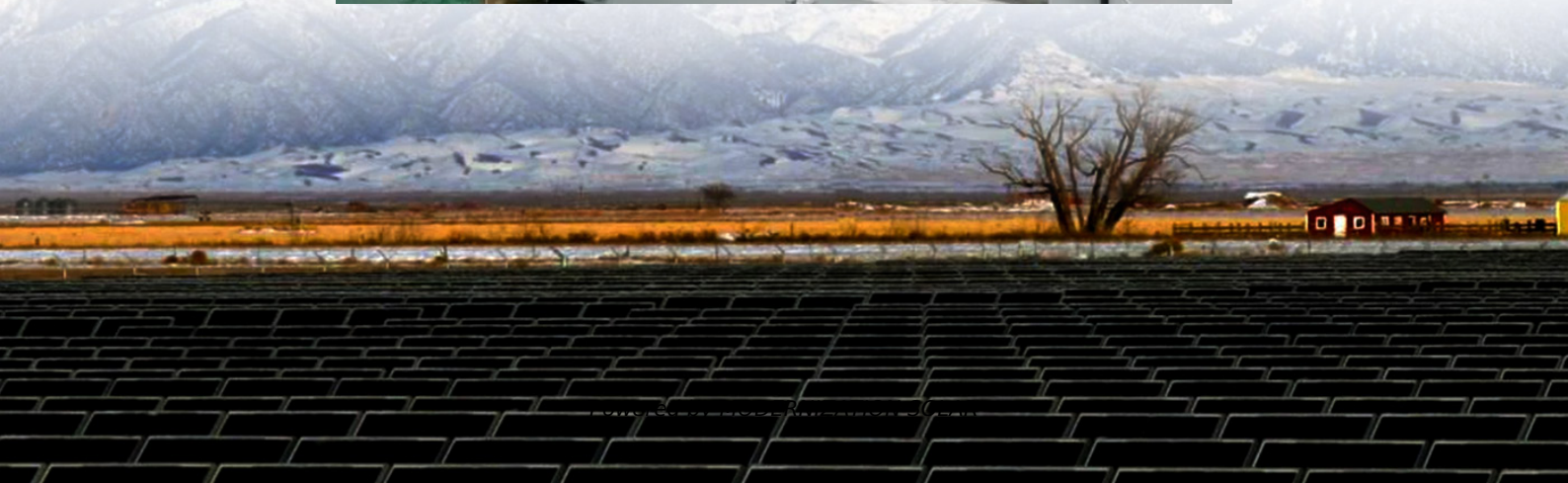


# **What is the relationship between solar and energy storage**





## Overview

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Why is solar storage important?

Solar storage is important because it allows solar energy to contribute to the electricity supply even when the sun isn't shining. It also helps smooth out variations in solar energy flow on the grid, which are caused by changes in sunlight.

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.

How do solar and energy storage work together?

Used in tandem, solar and energy storage can provide more capacity value than the sum of the two technologies used separately. These technologies work symbiotically to provide essential grid service. On many days, solar shortens the net load peak, while two- or 4-h duration storage effectively shifts the remaining peak load.

What is the relationship between solar PV and storage?

When solar PV and storage are considered simultaneously, the concurrent shift in the net load profile suggests a symbiotic relationship: storage can be dispatched during hours when solar exhibits diminished output, and solar helps to shorten the durations of peak load that must be shaved by energy-limited storage systems.



## What is the relationship between solar and energy storage

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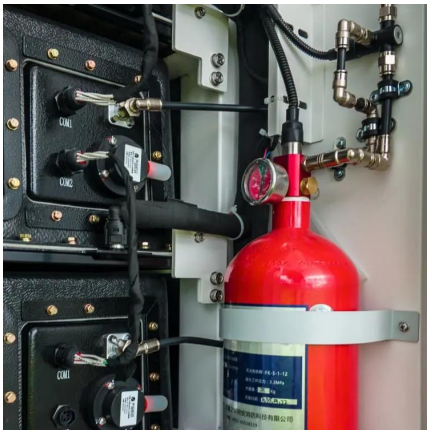






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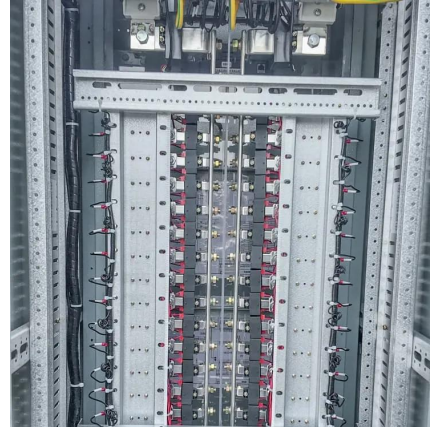
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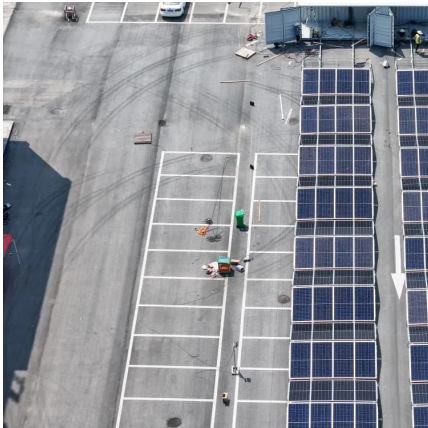
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