

When solar energy meets energy storage





Overview

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.

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.

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.

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.



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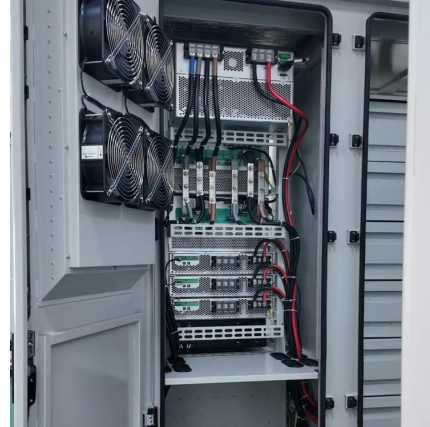


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