

# **How much energy storage is mandatory for solar and wind power**





## Overview

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Can solar energy be used for energy storage?

Solar power can be used to create new fuels that can be stored and later used to provide energy. Existing compressed air energy storage systems often use the released air as part of a natural gas power cycle to produce electricity.

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.

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 wind power systems work?

Solar and wind facilities use the energy stored in batteries to reduce power fluctuations and increase reliability to deliver on-demand power. Battery storage systems bank excess energy when demand is low and release it when demand is high, to ensure a steady supply of energy to millions of homes and businesses.



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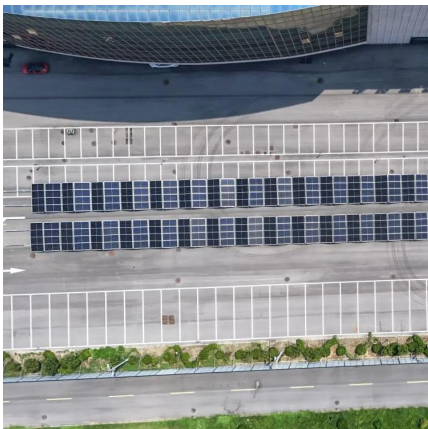


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