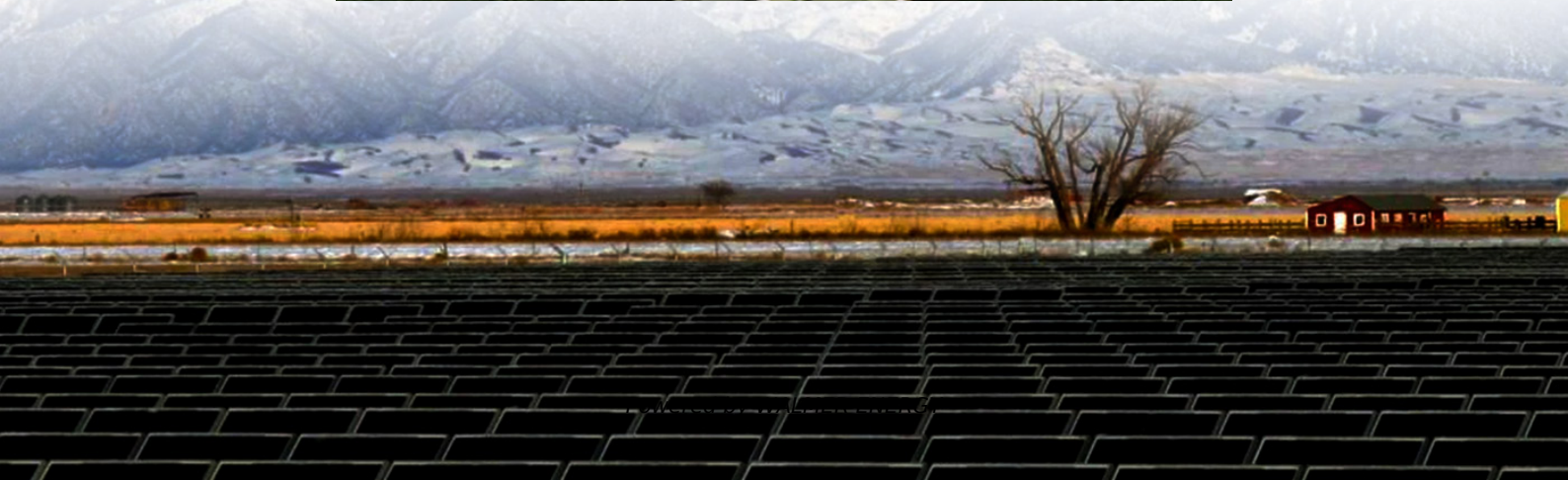


The difference between power storage and solar power generation





Overview

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.

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.

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.

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.



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