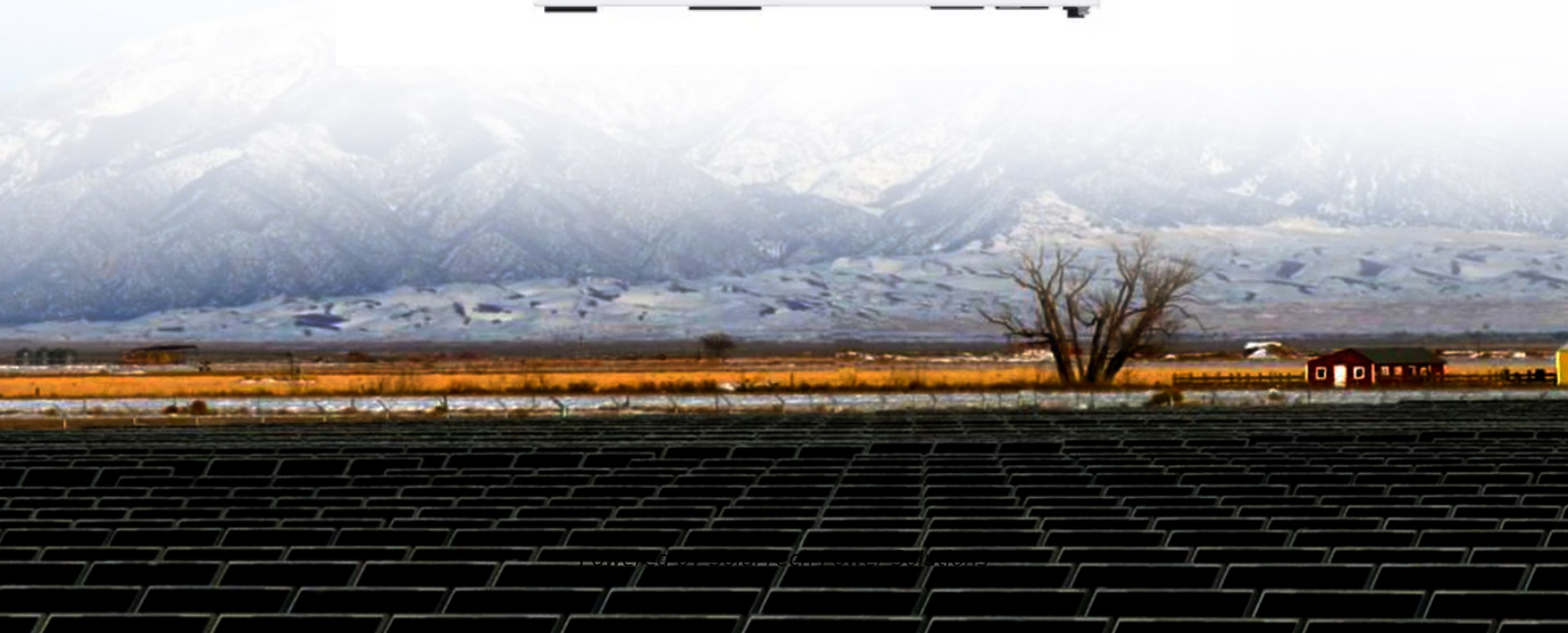


SolarTech Power Solutions

Peak-shaving energy storage projects



Overview

Is peak shaving energy storage a necessity?

In an era of rising electricity costs, unpredictable peak demand charges, and growing pressure for energy independence, peak shaving energy storage is no longer a luxury—it's a necessity.

Is peak shaving a viable strategy for battery energy storage?

Amid these pressing challenges, the concept of peak shaving emerges as a promising strategy, particularly when harnessed through battery energy storage systems (BESSs, Figure 1). These systems offer a dynamic solution by capturing excess energy during off-peak hours and releasing it strategically during peak demand periods.

Can peak shaving reduce energy costs?

Modern consumers actively seek cost-effective energy solutions and sustainable practices. This white paper explores peak shaving as an effective method to minimize energy costs. Energy and facility managers will gain valuable insights into how peak shaving applications can help unlock the full potential of energy storage systems.

Is peak shaving a viable strategy for grid operators?

If left unchecked, peak demand periods might see grid operators grappling with shortages that could surpass current levels by 10% or more. Amid these pressing challenges, the concept of peak shaving emerges as a promising strategy, particularly when harnessed through battery energy storage systems (BESSs, Figure 1).

How does a Bess-enabled peak shaving system work?

These systems offer a dynamic solution by capturing excess energy during off-peak hours and releasing it strategically during peak demand periods. The efficacy of this approach is illustrated by numerical examples, with instances

of BESS-enabled peak shaving leading to a remarkable 15% reduction in overall peak electricity consumption.

Is peak shaving a good option?

To determine whether peak shaving is the most suitable option, consumers can follow these best practices: Contactors are important in maintaining safety in high-voltage or high-current circuits within BESS. They are used for connecting or disconnecting different battery modules or strings to optimize the performance and lifespan of the battery.

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