

## SolarTech Power Solutions

# Energy Storage Peak Shaving Project Request



## Overview

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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.

What is peak shaving?

Peak shaving involves selectively transferring specific loads within a facility from the grid to an energy storage system. This process is accomplished by disconnecting the power supply of a specific load(s) from Source A (typically the grid) and connecting them to Source B (an energy storage system).

Should peak shaving be a strategy?

BESS is one of the most effective ways to achieve a sustainable future. The decision to adopt peak shaving as a strategy should be carefully assessed by consumers on a case-by-case basis. Peak shaving is particularly relevant in regions where Time-of-Use (TOU) rates are implemented by electric utilities and where demand charges are substantial.

What is gravity energy storage?

For instance, during low grid load periods, energy can be stored using gravity energy storage systems and released during peak load periods, achieving peak shaving and valley filling, and improving the efficiency and stability of grid operations.

What are energy-based storage technologies?

Energy-based storage technologies, characterized by their substantial rated capacity, are capable of continuously storing and discharging energy over extended durations to fulfill the grid's demand for a stable energy supply,

making them well-suited for large-scale energy storage applications.

Does peak shaving power reduce Esed and ocgr?

A correction model of peak shaving power of ES with the objective of minimizing ESED and OCGR was established.

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