

## ContainerPower Energy Solutions

# Industrial enterprise peak-shaving energy storage power station



## Overview

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Can peak shaving applications unlock the full potential of energy storage systems?

Energy and facility managers will gain valuable insights into how peak shaving applications can help unlock the full potential of energy storage systems. The electrical energy systems sector is a corner-stone of modern society, generating, transmitting, and distributing electricity for residential, commercial, and industrial use.

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.

When should a battery be charged in a peak shaving application?

In a peak shaving application, the batteries must be discharged when the power demand exceeds a predefined threshold, namely the peak shaving level. However, battery charging can be performed according to different strategies: Low power threshold: charges the battery when the demand falls below a low power limit.

What is the difference between peak shaving and load shifting?

It is essential to differentiate peak shaving from load shifting. Load shifting involves adjusting energy consumption patterns or postponing electricity usage to a later time. Base Peak shaving, sometimes called load shedding, involves reducing the peak electricity demand to lower demand charges.

Is peak shaving a good alternative to grid upgrades?

Electric vehicle chargers – With the emerging demand for fast E.V. charging

infrastructure, BESS is an alternative to grid upgrades, enabling integration of these new peak loads with a limited impact on the site electrification and on the grid. Peak shaving is an excellent application for the expansion of E.V. charging infrastructure.

Does fast-charging reduce optimum peak shaving level?

In general, the series in Fig. 9 reaffirm the results obtained in Fig. 8, with fast-charging as the strategy that lowers the optimum peak shaving level and, therefore, lowers the monthly average billing, followed by time-based and low-power threshold cases.

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