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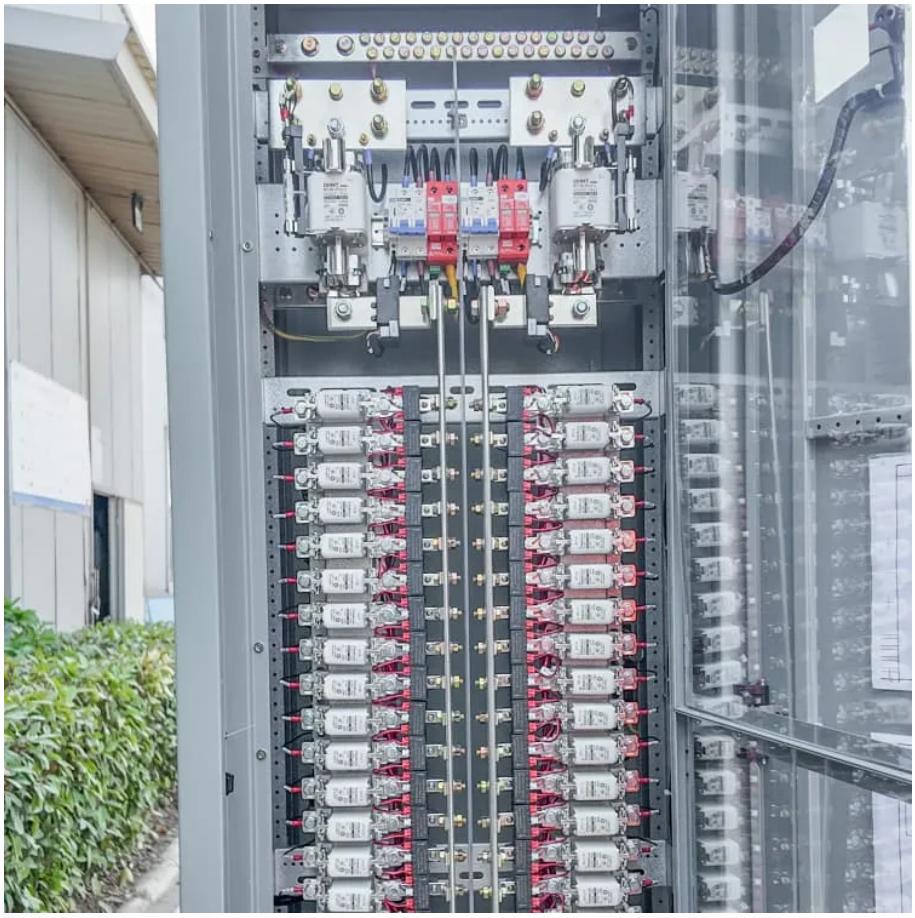
Peak shaving energy storage power station



Overview

Can a battery energy storage shave demand at peak times?

The maximum demand charge is usually imposed on the peak power point of the monthly load profile, hence, shaving demand at peak times is of main concern for the aforesaid stakeholders. In this paper, we present an approach for peak shaving in a distribution grid using a battery energy storage.

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 man-agers will gain valuable insights into how peak shaving applications can help unlock the full potential of energy storage systems.

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.

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 accom-plished by disconnecting the power supply of a specific load(s) from Source A (typically the grid) and connecting them to Source B (an energy stor-age system).

Can a battery energy storage shave a distribution grid?

In this paper, we present an approach for peak shaving in a distribution grid using a battery energy storage. The developed algorithm is applied and tested with data from a real stationary battery installation at a Swiss utility.

Can a battery storage control scheme be used for peak shaving?

This paper proposes a battery storage control scheme that can be used for peak shaving of the total grid load under realistic conditions. Particularly, a rule-based approach combined with a deep-learning load forecasting model is developed and its performance is compared with the theoretical optimum based on real data from the field.

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