

## ContainerPower Energy Solutions

# Greek energy storage peak-shaving power station put into operation



## Overview

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After the completion of the 130MWh energy storage project won by Nandu Power, it will be directly connected to the local power grid in Greece, providing diversified application scenarios such as peak shaving, grid frequency regulation, emergency backup, etc., which is of great significance for enhancing the flexibility and sustainability of the Greek energy system. Can battery energy storage power station solve the peak shaving problem?

When building a battery energy storage power station to solve the peak shaving problem caused by the large-scale nuclear power construction, the safe operation of nuclear power and the comprehensive economic benefits between nuclear power and battery energy storage power station should be fully analyzed.

Can battery energy storage and nuclear power combined peak shaving solve grid stability problems?

In view of the peak shaving problems caused by nuclear power construction, this study proposes a solution framework of battery energy storage and nuclear power combined peak shaving, which is also applicable to the grid stability problems caused by the construction of other large-scale power stations.

What is peak shaving?

Peak shaving, or load shedding, is a strategy for eliminating demand spikes by reducing electricity consumption through battery energy storage systems or other means. In this article, we explore what is peak shaving, how it works, its benefits, and intelligent battery energy storage systems. Electricity is essential to modern life.

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.

Does peak shaving a battery save money?

According to the results obtained in this study, more than the economic savings achieved by the peak shaving operation of the storage system is needed to compensate for the battery investment, considering the typical costs of industrial battery storage.

How to solve the peak shaving problem caused by Hainan nuclear power construction?

In view of the peak shaving problem caused by Hainan nuclear power construction, the solution framework of battery type and construction scale selection is proposed for the joint operation of battery energy storage power station and nuclear power station, in which three economic indicators IRR, PBP and LCOE are selected for comparison.

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