

Industrial park energy storage rise and fall

How can big data industrial parks improve energy storage business model?

Combined with the energy storage application scenarios of big data industrial parks, the collaborative modes among different entities are sorted out based on the zero-carbon target path, and the maximum economic value of the energy storage business model is brought into play through certain collaborative measures.

Do industrial parks have electric power load patterns?

Scientific Data 10, Article number: 870 (2023) Cite this article Considering the growing demand for electricity in industrial parks, understanding their electric power load patterns is critical for improving energy efficiency and ensuring the rational utilization of energy resources.

Are electric power load data available in industrial parks?

However, the detailed electric power load data of various buildings in industrial parks are rarely available and accessible, which hinders the related studies. In this context, we present the electric power load data of 6 years (from January 1, 2016 to December 31, 2021) for various types of buildings in an industrial park in Suzhou, China.

Are big data industrial parks a zero carbon green energy transformation?

From the standpoint of load-storage collaboration of the source grid, this paper aims at zero carbon green energy transformation of big data industrial parks and proposes three types of energy storage application scenarios, which are grid-centric, user-centric, and market-centric.

How does the Industrial Park work?

The industrial park contained various types of buildings, and the electric power load data of each building were automatically collected every 5 minutes, 30 minutes, and 1 hour by smart meters. Similarly, the weather data were automatically collected every hour by a dedicated meteorological station installed on-site.

What is energy infrastructure in an industrial park?

The energy infrastructure in an industrial park is defined as shareable utilities that are located within the park and provide energy for the park, e.g., heat and electricity [31]. Climate change mitigation requires decoupling energy services and GHG emissions.



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