

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.

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 <sup>31</sup>. Climate change mitigation requires decoupling energy services and GHG emissions.

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.

What was energy infrastructure like in 1604 industrial parks?

Firstly, a high-resolution geodatabase of energy infrastructure in 1604 industrial parks was established. These energy infrastructures largely featured heavy coal dependence, small capacities, cogeneration of heat and power, and were young in age.

Why is shared energy infrastructure important in industrial parks?

Shareable energy infrastructure is universally used in industrial parks and generally has a long service lifetime<sup>27,28,29</sup>; thus, the GHG emissions from industrial parks are locked in. Efficient, resilient, and sustainable infrastructure is a crucial pathway to greening industrialization <sup>30</sup>.

What is the energy infrastructure in Chinese industrial parks?

The geodatabase of energy infrastructure in 1604 Chinese industrial parks covered 2127 plants, including 4706 units. Fig. 1 illustrates the overview of energy infrastructure in the parks by the end of 2014, from the perspective of stock evolution, fuel structure, and capacity structure.

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ESS(Energy Storage Sytem) solve the balance between the supply and demand of power grid in time or

space, in order to improve the security of power grid. ESS is the core equipment of ...

Here, the authors studied the energy infrastructure of 1604 industrial parks in China and found that by decarbonizing energy infrastructure stocks in the industrial parks, the ...

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The multi-vector energy solutions such as combined heat and power (CHP) units and heat pumps (HPs) can fulfil the energy utilization requirements of modern industrial parks. The energy ...

This study focuses on providing publicly available electric power load data of various buildings in an industrial park, which contributes to the regional diversification of ...

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Table 1. Performance comparison of typical electricity storage methods [ 18, 61 - 64] Energy storage types. Specific energy (Wh/kg) Specific power (W/kg) Rated power. Energy storage ...

