

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.

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.

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.

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.

Does energy infrastructure decarbonize industrial parks?

In existing studies, GHG mitigation of industrial parks and energy infrastructure have been mostly analyzed separately, and very few studies emphasized energy infrastructure decarbonization at the industrial park level <sup>31</sup>.

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To provide the full spectrum of GHG mitigation in Chinese industrial parks by managing energy infrastructure, first, this study uncovered the energy infrastructure stocks of ...

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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 ...

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