

Small energy storage in industrial park

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.

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^{27,28,29}; thus, the GHG emissions from industrial parks are locked in. Efficient, resilient, and sustainable infrastructure is a crucial pathway to greening industrialization ³⁰.

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 ³¹.

What are industrial parks?

Industrial parks are a common feature across countries worldwide, clustering intensive industrial activities in a tract of land¹. Global attentions on industrial parks and their sustainability transfers are increasing in recent years ^{2,3,4}.

Can energy infrastructure decarbonize Chinese industrial parks?

Industrial parks are flourishing globally and are mostly equipped with a shareable energy infrastructure, which has a long service lifetime and thus locks in greenhouse gas (GHG) emissions. We conducted a two-phase study to decarbonize Chinese industrial parks by targeting energy infrastructure.



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