

Comparison of the three-phase economic benefits of solar- powered container terminals used in airports





Overview

Can ports use solar energy as an alternative energy source?

Ports, as an energy-consuming sector, are seeking alternative sources of energy. Various approaches have been proposed to develop an alternative energy source in ports. Some ports, such as Antwerp and Genoa, decided to use solar energy as an alternative energy source for their some loads.

Are container terminals sustainable?

Sustainable development of container terminals is based on energy efficiency and reduction in CO₂ emissions. This study estimated the energy consumption and CO₂ emissions in container terminals according to their layouts.

How can the maritime industry benefit from solar energy?

Key directions include the development of hybrid systems that combine solar energy with sources such as wind and hydrogen fuel cells. This combination aims to reduce greenhouse gas emissions and dependence on fossil fuels. The maritime industry stands on the brink of revolutionary changes in embracing solar energy.

Can solar energy be used in maritime transport?

The technologies and challenges in utilizing solar energy for shipping are analyzed, trends in solar energy for maritime transport are discussed, and future research directions for the use of solar energy in the maritime sector are proposed.



Comparison of the three-phase economic benefits of solar-powered



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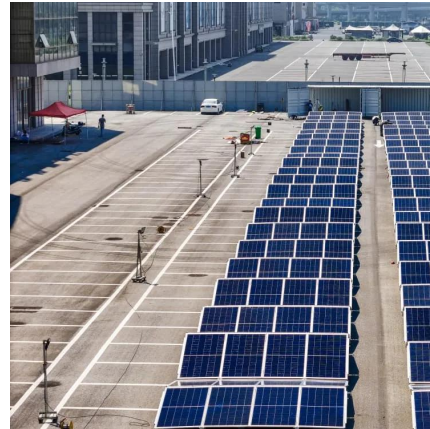
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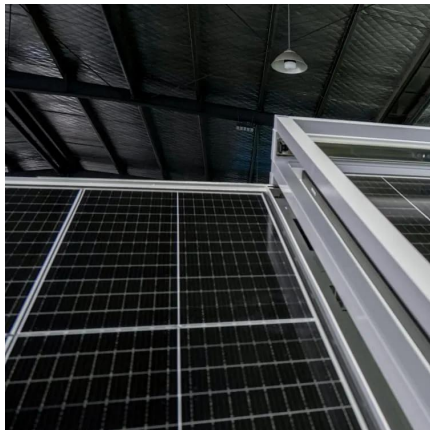
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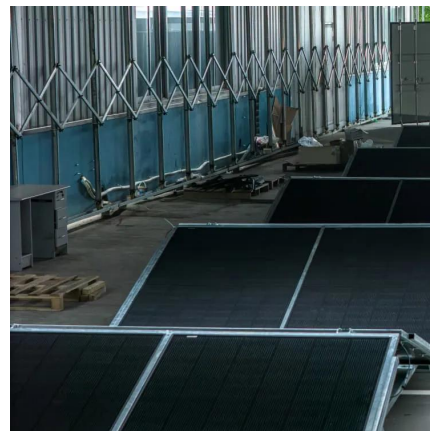


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