

<div class="df\_qntext">Are green container terminals a solution to maritime transport's environmental impact?

To support this swift,green container terminals have emerged as an effective responseto cope with the increasing concern over maritime transport's environmental impact.

<div class="df\_qntext">Is sustainable shipping a new field of research?

The review reveals that sustainable shipping has been an emerging field of researchsince the 21st century. This paper categories the sustainable shipping content into environmental,social,and economic pillars and draws insights.

<div class="df\_qntext">Is sustainable shipping a de-politicized and technocratic project?

Sustainable shipping is becoming a de-politicized and technocratic project. Besides,shipping companies' business performance is maximised when sustainable shipping activities are conducted continuously,gradually,and regularly . Hence,the process towards sustainable shipping would be a long journey.

<div class="df\_qntext">Are smart shipping technology and green port construction the future of sustainable maritime transport?

Based on the analysis,it is found that there are two hot areas in the direction of sustainable maritime transport,namely intelligent shipping technology and green port construction. Therefore,the research status of these two applications is described,providing references for researchers in any future exploration in this field.

<div class="df\_qntext">What are the research directions for Sustainable Shipping?

Future research directions in the field of sustainable shipping are also recommended from four perspectives, namely the interrelationship between environmental and social pillars, investment strategies in sustainable shipping, risk assessment of sustainable shipping, and post pandemic sustainable shipping. 1. Introduction

<div class="df\_qntext">What is the future of sustainable maritime transport?

As technology continues to advance,sustainable maritime transport will continue to evolve in a more efficient,intelligent,and environmentally friendly direction. Future research will pay more attention to technological innovation and integration,promote interdisciplinary cooperation,and improve the overall research level.

Abstract: In order to improve the horizontal transportation efficiency of the terminal Automated Guided Vehicles (AGVs), it is necessary to focus on coordinating the time and space synchronization ...

Automatic guided vehicles (AGVs) in the horizontal area play a crucial role in determining the operational

efficiency of automated container terminals (ACTs). To improve the operational efficiency ...

Guided by green and low-carbon policies, the construction of intelligent container terminals is imperative. Based on the emerging U-shaped automated sea-rail intermodal container ...

A refined collaborative scheduling method for multi-equipment at U-shaped automated container terminals based on rail crane process optimization [J], Journal of Marine Science and ...

In order to improve the horizontal transportation efficiency of the terminal Automated Guided Vehicles (AGVs), it is necessary to focus on coordinating the time and space synchronization operation of the ...

In this paper, new automated container terminals equipped with Unilateral-cantilever Rail-Mounted Gantry Cranes (URMGC) are considered as the research object. In the scenario, the ...

AbstractTo address the ship allocation issues within container liner routes in the context of enhancing energy efficiency and reducing carbon emissions in ship operations, we formulated a ...

At the Port Newark Container Terminal in New Jersey, solar panels have been shoehorned into a tightly packed, high-traffic shipping facility, without disrupting operations or taking ...

Among all viable options, technologies and engineering solutions of generating, storing, transporting and utilizing clean electricity to power transportation systems probably pave the most ...

This argument begins with a set of considerations on the nature of engineering knowledge and practice (especially in distinction from other sciences) before exploring a set of case studies of engineering ...

Therefore, a new type of automated container terminal layout is proposed, as shown in Fig. 1. This U-shaped automated container terminal realizes the container handling between ship and ...

This study optimises port infrastructure investment and shore-power subsidies considering the congestion at the bottlenecks and CO2 emission reduction targets in inland container ...

This Review discusses the integration of solar electric vehicles into energy systems, highlighting their potential to enhance energy efficiency, reduce emissions and support transport ...

Because of the exponential expansion in container traffic, larger container ships are required, necessitating the development of smart ports that use advanced technologies and intelligent ...

Because they are environmentally friendly and safe, automated guided vehicles (AGVs) are increasingly used in newly constructed automated container terminals. However, their scheduling strategy is ...



## **New u s transportation solar container science and engineering policy**

Container terminal operations A container terminal is a dedicated facility at a seaport designed to link sea and land cargo flows using specialized equipment for handling, transporting, and ...

The new focus is on reducing or preventing negative environmental effects caused by shipping service activities at various stages such as space booking, shipping documentation, and ...

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