The road to low carbon livingsolar container

Can a low carbon and resilience method be applied to other container terminals?
Additionally,the proposed method to evaluate the low carbon and resilience performance is objective and comparable across container terminals or scenarios. Therefore,it can be applied to other container terminals with relevant statistical data internationally. The availability and quality of data are crucial to guarantee the use of the method.

Does low carbon contribute to resilience performance in Chinese container terminals?
A coupling coordination model is established to estimate the balance between low carbon and resilience performance. The development of resilience lags behind that of low carbon for container terminals in China. The coordination of low carbon and resilience in Chinese container terminals is basically satisfied.

Is there a low carbon and Resilience index system for container terminals?
A comparable low carbon and resilience index system is proposedat the container terminal level. A coupling coordination model is established to estimate the balance between low carbon and resilience performance. The development of resilience lags behind that of low carbon for container terminals in China.

Is low-carbon development a long-term concern for the maritime industry?
According to the latest report of UNCTAD,low carbon and resilience development is a long-term concern for the maritime industry(UNCTAD,2021). China also proposed to promote low-carbon development of transportation and enhance the resilience of transportation systems in related policies.

What is the average low carbon performance of container terminals?
The average low carbon performance of all container terminals is 0.55(see Fig. 3). According to the evaluation domain V = (1,2,3,4,5) = (very high-carbon,high-carbon,neutral,low-carbon,very low-carbon),the evaluation results of low-carbon performance are "neutral".

Can a two-layer carbon accounting framework integrate vessel berthing-waiting and terminal operations?
This study develops a two-layer carbon accounting framework that integrates vessel berthing-waiting and terminal operations, tailored to the operational characteristics of Shanghai Port container terminals.

Choosing to live off-grid in a container home isn"t just an alternative lifestyle -- it"s a calculated decision of energy independence, sustainable living, and long-term economic strategy.

Accurate carbon emission estimation across all operational stages of container terminals is essential for advancing low-carbon development in the transportation sector and ...

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To realise these goals of low carbon sustainable urban development require solutions that can incorporate integrated cross-sectoral analyses in any set of future built environment scenario ...

The results indicated that the coupling coordination degree of low carbon and resilience performance in Chinese container terminals is slightly coordinated, but the development of resilience ...

Firstly, this paper studies the basic characteristics and function subjects of low-carbon ecological communities and based on the current international experience in the construction of low-carbon city ...

According to Caprotti (2017), low carbon urban development specifically aims to achieve two key goals: (a) to ensure that urban areas are developed to be more environmentally ...

In recent years, there has been a relevant increase in research and attention to greening ports. This growing interest includes the development of effective strategies and ...

To tackle the socio-environmental challenges associated with container ports" transportation and distribution systems, this study uses Shenzhen Port--the third-largest container ...

This paper investigates the performance of container-based structure for affordable residential buildings and determines its potential to achieve low energy and low carbon status in ...

Compared to similar-sized residential buildings constructed with brick-and-mortar structures, the overall construction speed increased by 81.25% (Niu 2020). This model boasts ...

By considering the impact of ports and cities on the resilience of container terminals, and subdividing carbon emission sources to assess low carbon, the proposed index system can ...

To reduce carbon emissions, it is important to constantly monitor the economic benefits of the port (Wang et al., 2020b). Therefore, this study defines container port low-carbon efficiency ...